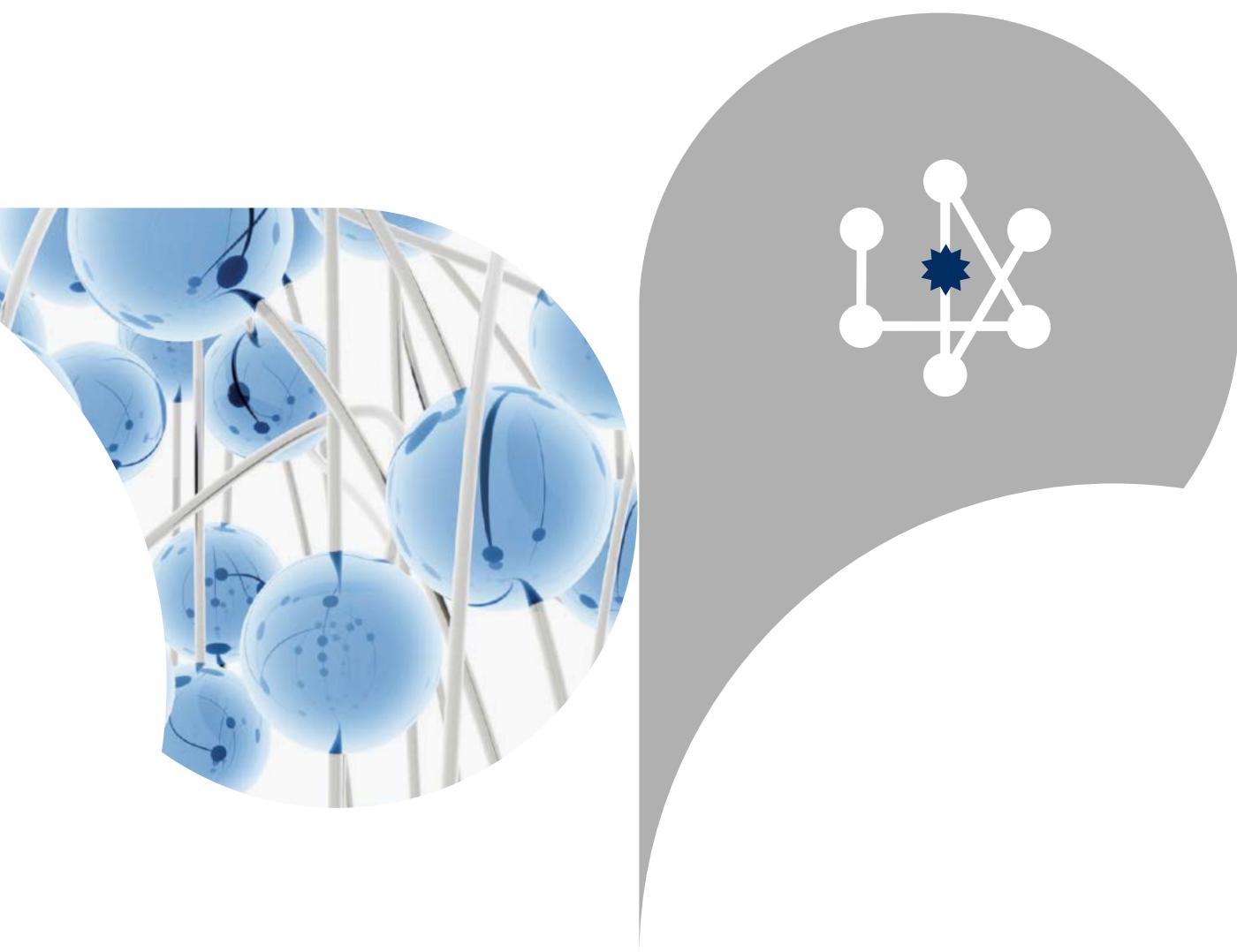




antibodies for neuroscience



PROTEINTECH: SETTING THE BENCHMARK IN ANTIBODIES

ORIGINAL MANUFACTURER ORIGINAL PRODUCTS

Part of Proteintech's early vision was to make all its own products, to the highest standards possible, thus assuming ultimate responsibility for their quality. In addition to its founders' refusal to source a single antibody from any other provider, they also refused to supply any other provider. When you receive your antibody and see the Proteintech logo on the vial, know that you hold something that is truly unique. As an original manufacturer, Proteintech can offer you:

- **100% original products; each product is unique and can only be bought directly or through approved distributors.**
- **Antibodies now tested in siRNA-treated samples to demonstrate antibody specificity.**
- **Guaranteed to work in any species and any applications, or get your money back.**

SiRNA VALIDATION

Recently, Proteintech has pledged to undertake siRNA knockdown validation of most of its antibodies by the end of 2015. The specificities of over 550 of its antibodies have already been confirmed by customers using siRNA knockdown, and published in over 650 journal papers. In adding its own siRNA data to those previously available in the literature, Proteintech's aim is to make a gold standard of antibody validation more accessible to its customers.

- **Help set a new benchmark of antibody validation.**
- **Improve on industry standards.**
- **Demonstrate product specificity.**
- **Strengthen existing validation procedures.**

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14-15	EYA2	→	GFRA2
16-17	GFRA2	→	HTRA2
18-19	HuC	→	MEF2C
22-23	MEF2C	→	NHP2L1
24-25	Nicastrin	→	PHKG1
26-27	PHKG2	→	RIMBP2
28-29	RIM53	→	SNRPB2
30-31	SNRPD1	→	TFAM
32-33	TFAM	→	β-ENaC

FOCUS ARTICLES

DACH1: A MARKER OF NEURAL ROSETTE CELLS

By Ashley Juavinett

Related Antibodies

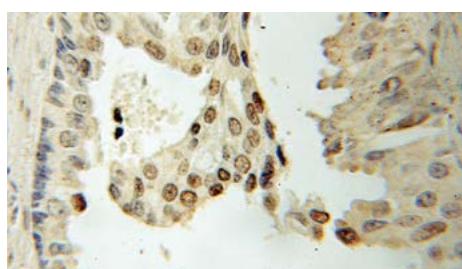
DACH1	10914-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
TGF- β	18978-1-AP	Rabbit Poly	ELISA, IHC

The brain is composed of hundreds, perhaps thousands of different types of neurons that can be differentiated based on their shape, genetics, electrophysiology, or their location. While we can now transform stem cells into neurons in a dish, the next question is: which types of neurons can we generate? Many researchers are using stem cells to model motor disorders such as ALS, but it has proven difficult to transform these cells into the various neuron types that are involved in neurological disorders. Furthermore, stable cell cultures are needed to interrogate the molecular bases of such disorders. Several labs have addressed these questions and more, all with a little bit of help from a special type of neuroepithelial stem cell and Proteintech's Dach1 antibody (10914-1-AP).

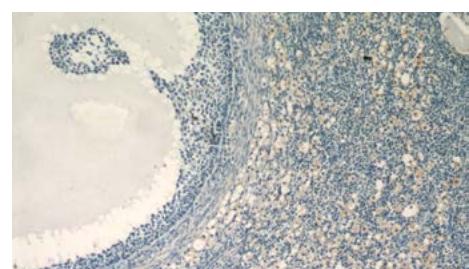
During development, neurons depend on internal and external clues to decide their cell fates. As this complex process is underway, they arrange in various shapes and orientations that will ultimately give rise to the complex mature brain structure. Even when neuroepithelial cells are developed from human embryonic stem cells (hESCs) in a dish, they arrange in a structure known as a "neural rosette," a beautiful radial arrangement of cells that remarkably resembles – in structure and genetics – the developing neural tube of the brain.¹ Responsible for producing the neurons and glia that populate our nervous systems, these rosette cells have a broad capability to differentiate and are therefore prime candidates for developing new technologies to purposefully generate different types of neurons.

Recently, a group of researchers in New York showed that they could reliably isolate and maintain these rosettes from hESCs in order to study their molecular and genetic properties.¹ Among a host of genes, they found that the rosettes had an increase in Dach1, a known developmental transcription factor that has been implicated in cancer research (see Proteintech's anti-DACH1 staining prostate cancer tissue in the accompanying image). The authors note that Dach1 participates in a known pathway where it represses another growth factor – TGF- β – suggesting that repression of the TGF- β pathway may be necessary for rosette maintenance. As an extension of this work, the Brüste lab from Bonn, Germany showed that they could generate rosette-type cells that lasted longer and were self-renewing.² As confirmation that they had isolated rosette-type cells, they showed that their rosettes expressed Dach1.

With the Dach1 antibody to help along the way, such studies have advanced rosette-type stem cells as a model for developmental neuroscience.



Immunohistochemical staining of paraffin-embedded human prostate cancer using Proteintech's anti-DACH1 antibody (10914-1-AP) at dilution of 1:50 (under 10x lens).



Immunohistochemistry of paraffin-embedded human ovary tissue slide using 18978-1-AP (TGFB1 Antibody) at dilution of 1:50 (under 10x lens).

References

- Elkabetz et al., Genes Dev. 2008, Jan 15;22 (2):152-65.
- Koch et al., PNAS USA. 2009 Mar 3;106 (9):3225-30.

WHAT CAN WE LEARN BY STUDYING ALS IN A DISH?

By Ashley Juavinett

We typically think of disease as a systemic problem – for example, a person with amyotrophic lateral sclerosis (ALS, or Lou Gehrig's disease) gradually loses the ability to move, indicating an underlying issue with motor systems. More recently, we have begun to consider diseases in a genetic light, noting that diseases often have corresponding genetic abnormalities such as mutations in SOD1, C9ORF72, TDP-43, or FUS.

Now, with the nascent ability to model diseases in a dish using cultured human neurons, we can also begin to examine diseases in terms of their cell-specific effects: what happens to a particular type of neuron when its host organism is affected by a debilitating disease such as ALS?

Back in 2006, a group from Japan showed that you could take human skin cells and "de-differentiate" them; in other words, turn them back into stem cells, wiping the slate blank for their function (Takahashi & Yamanaka, 2006). You can then take these induced pluripotent stem (iPS) cells as they are now known, and program them into neurons by allowing them to grow in a dish in the presence of certain growth factors. Although these cells started life differently, they have the same genome as regular neurons, giving us a unique look at the downstream cellular effects of certain genes.

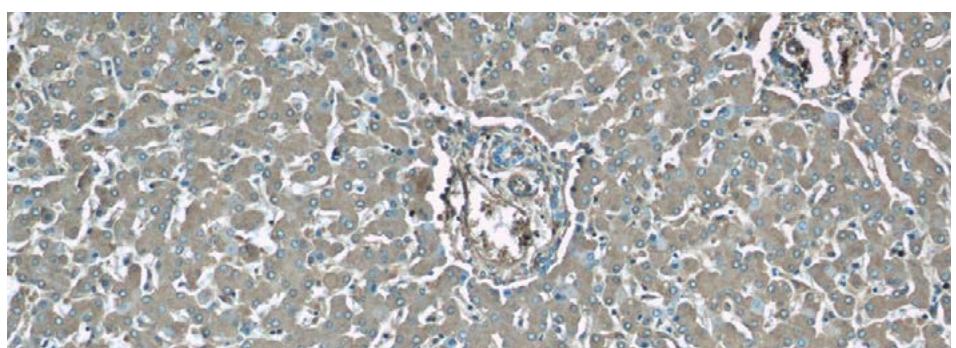
Fred Gage and colleagues have already had success with modeling schizophrenia in this way. By comparing neurons from schizophrenic patients and healthy controls, they discovered that the schizophrenic neurons had less synapses with different genetic markers, and that the antipsychotic loxapine reversed these abnormalities (Brennan et al., 2011). The hope is that similar types of observations could be made with motor neuron diseases such as ALS, to potentially move us closer to better treatments for this presently incurable disease (Winner et al., 2014).

To study ALS, scientists transformed iPS cells into a particular type of cell involved in helping us do almost everything related to voluntary as well as involuntary movement: a motor neuron. ALS is marked by progressive loss of these neurons in the cortex, brainstem, and spinal cord, ultimately causing the patient to completely lose the ability to move. Motor neurons that are derived from patients with ALS have the same genetic make-up from their host patient, allowing scientists to study particular genes associated with the disorder (Gage, 2010). In 2011, a group of scientists in La Jolla, California did just the above. They focused on an autosomal dominant form

of familial ALS called ALS8, affecting about 10% of people with ALS. First mapped in a Brazilian family, and later in patients with German and Japanese ancestry, ALS8 is caused by a mutation in the VAPB gene. Using iPSCs from ALS8 patients and their non-carrier siblings, they showed that there was indeed a decrease in VAPB proteins in ALS8-derived neurons, supporting previous observations from the sporadic form of ALS (Mitne-Neto et al., 2011).

In March 2014, an international team of scientists published a study about iPS cells derived from an ALS patient with a specific TDP-43 mutation known as M337V. TDP-43 is a DNA/RNA binding protein that is normally found in the nucleus, but has an abnormal pathology in diseases such as ALS and frontotemporal lobar degeneration. Consistent with previous observations, the researchers found that the patient's cells had increased cytosolic levels of TDP-43. In addition to this proof of concept for using iPS cells, they found something quite groundbreaking: they could transfect these cells with an allele-specific small-interference RNA (siRNA) to effectively reduce levels of TDP-43 (Nishimura et al., 2014). This provides some preliminary evidence that RNA interference may be useful for developing ALS therapeutics.

Of course, studying diseases in a dish cannot tell us everything we need to know, and is still several steps away from bedside therapies. But as iPS cell technology continues to improve and integrate with other technologies such as RNA interference, there are many avenues of research that may ultimately prove very beneficial to developing treatments for ALS as well as other motor neuron disorders. In the words of Tom Insel, NIMH director, "From astronomy to microbiology, new technology has often been the portal to new understanding."



Immunohistochemical of paraffin-embedded human liver using 16382-1-AP(Alpha-1-Antitrypsin antibody) at dilution of 1:50 (under 10x lens).

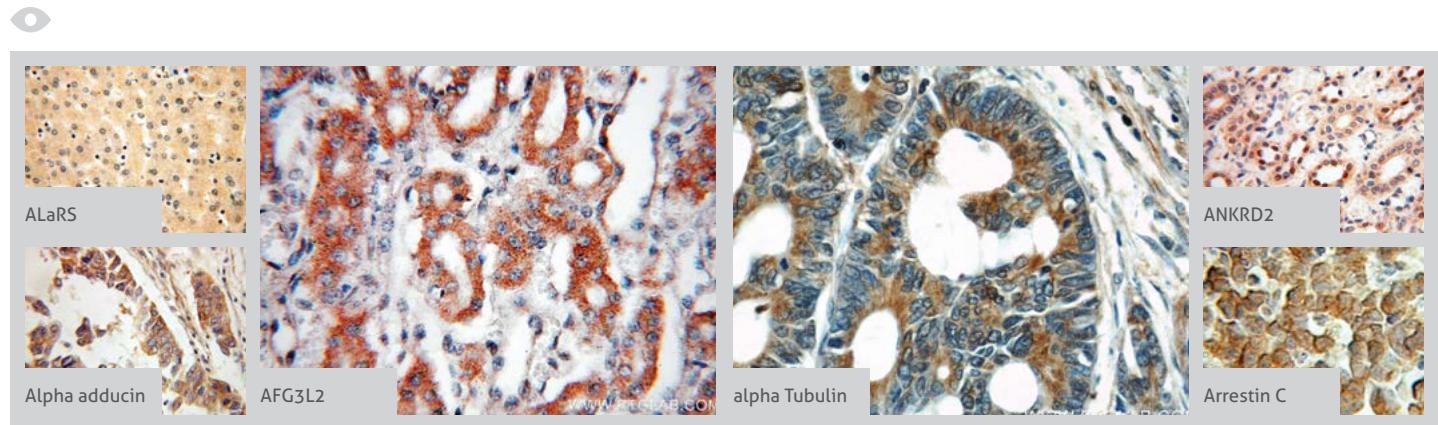
14-3-3
→ Alpha Adducin

ANTIBODIES FOR NEUROSCIENCE

Antibody Name	Cat No.	Type	Applications
14-3-3	14503-1-AP	Rabbit poly	ELISA, IF, IP, IHC, WB
14-3-3	66061-1-IG	Mouse McAb	ELISA, WB, IHC, IF
14-3-3 epsilon	11648-2-AP	Rabbit poly	ELISA, WB, IHC, IF, IP, FC
14-3-3 GAMMA-Specific	12381-1-AP	Rabbit poly	ELISA, IP, WB, IF
ABAT	11349-1-AP	Rabbit poly	ELISA, WB, IHC, IP
ABCA2	20681-1-AP	Rabbit poly	ELISA, WB
ABCB7	11158-1-AP	Rabbit poly	ELISA, WB, IP
ABCG4	14269-1-AP	Rabbit poly	ELISA, WB, IHC
Acetylated tubulin (Lys40)	66200-1-IG	Mouse McAb	ELISA, WB, IHC, IF
ACHE	17975-1-AP	Rabbit poly	ELISA, WB, IHC
ACTA1-Specific	17521-1-AP	Rabbit poly	ELISA, WB, IHC
ACTA2	23 14395-1-AP	Rabbit poly	ELISA, IHC, IP, WB
ACTA2	4 23081-1-AP	Rabbit poly	ELISA, WB, IHC, IP
ACTN2	14221-1-AP	Rabbit poly	ELISA, WB, IP
ADAM17	24620-1-AP	Rabbit poly	ELISA, WB
ADAM17-Specific	20259-1-AP	Rabbit poly	ELISA, WB
ADAM8	23778-1-AP	Rabbit poly	ELISA, WB, IHC
ADAP1	13911-1-AP	Rabbit poly	ELISA, WB, IHC, IF
ADAR1	14330-1-AP	Rabbit poly	ELISA, IHC, IF, WB, IP
ADARB1	22248-1-AP	Rabbit poly	ELISA, WB
ADCY3	19492-1-AP	Rabbit poly	ELISA, WB, IHC, IF
Adenosine A1 Receptor	20332-1-AP	Rabbit poly	ELISA, WB
Adenosine A1 Receptor	55026-1-AP	Rabbit poly	ELISA, WB, IHC

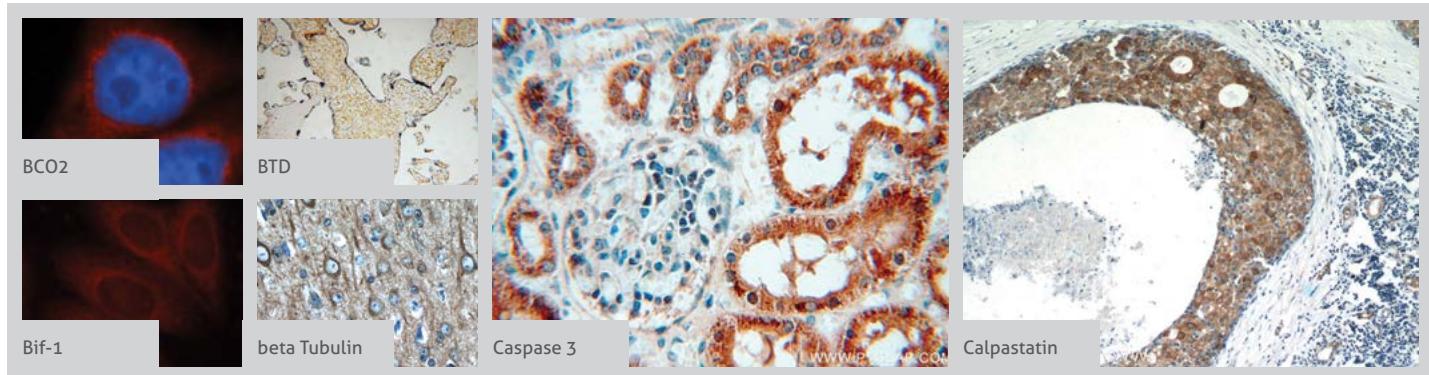
Antibody Name	Cat No.	Type	Applications
ADH1B	17165-1-AP	Rabbit poly	ELISA, WB
ADNP	17987-1-AP	Rabbit poly	ELISA, WB, IF
ADRA1A-Specific	19777-1-AP	Rabbit poly	ELISA, WB
ADRA1B	22419-1-AP	Rabbit poly	ELISA, WB
ADRB2	13096-1-AP	Rabbit poly	ELISA, WB, IHC
AFG3L2	14631-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
AIF	5 17984-1-AP	Rabbit poly	ELISA, IHC, WB, IP, IF
AIP/ARA9	18176-1-AP	Rabbit poly	ELISA, WB, IHC
AIPL1	15108-1-AP	Rabbit poly	ELISA, IHC, WB
AKT1	19 10176-2-AP	Rabbit poly	ELISA, WB, IHC, IP, FC
AKT1	51077-1-AP	Rabbit poly	ELISA, IHC, WB, IF
AKT1	60203-1-IG	Mouse McAb	ELISA, WB, IF, IHC, FC, IP
AKT1	60203-2-IG	Mouse McAb	ELISA, WB, IHC, IF
ALADIN	15127-1-AP	Rabbit poly	ELISA, WB, IHC, IF
AlaRS	17394-1-AP	Rabbit poly	ELISA, WB, IHC
ALDH1A1	5 15910-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF
ALDH1A1	22109-1-AP	Rabbit poly	ELISA, WB, IHC
ALDH1A1	60171-1-IG	Mouse McAb	ELISA, WB, IF
ALK,CD246	60321-1-IG	Mouse McAb	ELISA, IHC, WB
Alpha Actin	23660-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
Alpha actin	11032-1-AP	Rabbit poly	ELISA, WB, IP
Alpha actin	23082-1-AP	Rabbit poly	ELISA, IHC, WB
Alpha adducin	10791-1-AP	Rabbit poly	ELISA, WB, IHC

Alpha B Crystallin
→ AZGP1



Antibody Name	Cat No.	Type	Applications
Alpha B Crystallin	15808-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Alpha cardiac actin-specific	66125-1-IG	Mouse McAb	ELISA, WB, IHC
alpha Tubulin	11224-1-AP	Rabbit poly	ELISA, WB, IP, IHC, IF, FC
alpha Tubulin	66031-1-IG	Mouse McAb	ELISA, IHC, WB, FC, IP, IF
alpha Tubulin	14555-1-AP	Rabbit poly	ELISA, IHC, IF, WB
alpha Tubulin	HRP-66031	Mouse McAb	ELISA, WB
Alpha-2-antiplasmin	13228-1-AP	Rabbit poly	ELISA, WB
Alpha-sarcoglycan	13222-1-AP	Rabbit poly	ELISA, WB
alpha-synuclein	10842-1-AP	Rabbit poly	ELISA, IHC, WB, IF
ALS2	13998-1-AP	Rabbit poly	ELISA, WB, IHC
AMBRA1	13762-1-AP	Rabbit poly	ELISA, IHC, WB, IF
Amphiphysin	13379-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Amyloid beta (A4) precursor protein	10524-1-AP	Rabbit poly	ELISA, WB
androgen receptor	22089-1-AP	Rabbit poly	ELISA, WB, IHC
androgen receptor	22576-1-AP	Rabbit poly	ELISA, WB, IP
Angiogenin	18302-1-AP	Rabbit poly	ELISA, WB, IHC
ANKRD2	11821-1-AP	Rabbit poly	ELISA, WB, IHC, IP
ANKS1B	24783-1-AP	Rabbit poly	ELISA, WB, IF, IHC
ANO10	21901-1-AP	Rabbit poly	ELISA, WB, IP
APBB2	13177-1-AP	Rabbit poly	ELISA, WB
APH1A	11643-1-AP	Rabbit poly	ELISA, WB
APLP2	15041-1-AP	Rabbit poly	ELISA, IHC, WB, IP

Antibody Name	Cat No.	Type	Applications
APPL1	12639-1-AP	Rabbit poly	ELISA, WB, IHC, IP
APPL1	19885-1-AP	Rabbit poly	ELISA, WB, IF, IHC, IP
AQR	24342-1-AP	Rabbit poly	ELISA, WB, IHC
Aquaporin 4	16473-1-AP	Rabbit poly	ELISA, IHC, WB
ARC/ARG3.1	16290-1-AP	Rabbit poly	ELISA, WB, IHC, IP
ARHGEF4	55213-1-AP	Rabbit poly	ELISA, IHC, WB, IP
ARHGEF9-Specific	20042-1-AP	Rabbit poly	ELISA, WB
ARNT2	12810-1-AP	Rabbit poly	ELISA, WB, IHC
Arrestin C	11100-2-AP	Rabbit poly	ELISA, WB, IHC
ASF/SF2	12929-2-AP	Rabbit poly	ELISA, WB, IP
ASIC2	17851-1-AP	Rabbit poly	ELISA, WB, IP
ASIC4	12003-1-AP	Rabbit poly	ELISA, WB
ASPH	14116-1-AP	Rabbit poly	ELISA, WB
Ataxin 2	21776-1-AP	Rabbit poly	ELISA, IHC, IF, WB, IP
ATIC	10726-1-AP	Rabbit poly	ELISA, WB, IF
ATOH1	21215-1-AP	Rabbit poly	ELISA, WB
ATP1A1	14418-1-AP	Rabbit poly	ELISA, IP, IHC, WB
ATP1A1-Specific	55187-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IF
ATP1A2	16836-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC
ATP1A2-Specific	55179-1-AP	Rabbit poly	ELISA, WB, IHC
ATX3,ATXN3	13505-1-AP	Rabbit poly	ELISA, WB, IHC
ATXN10	15693-1-AP	Rabbit poly	ELISA, WB, IHC, IF
AZGP1	66178-1-IG	Mouse McAb	ELISA, WB, IHC

BAALC
→ **C1QC**


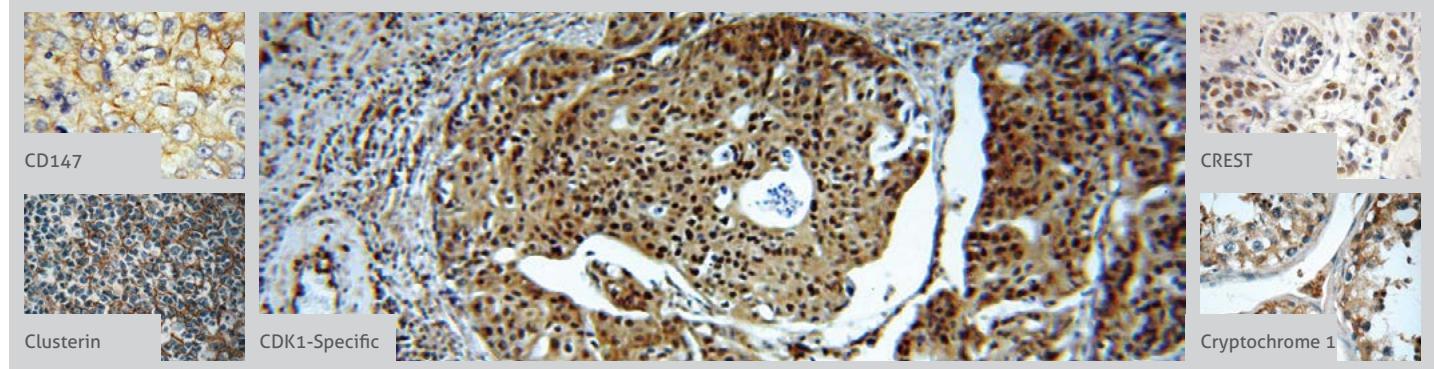
Antibody Name	Cat No.	Type	Applications
BAALC	24997-1-AP	Rabbit poly	ELISA, WB, IHC
BACE1	12807-1-AP	Rabbit poly	ELISA, WB, IP, IHC
BACE2	16321-1-AP	Rabbit poly	ELISA, WB
BAD	5 10435-1-AP	Rabbit poly	ELISA, WB, IHC
BAIAP2	11087-2-AP	Rabbit poly	ELISA, WB, IHC, IP
BAK	17 14673-1-AP	Rabbit poly	ELISA, WB, IHC, IF
BAX	64 50599-2-IG	Rabbit poly	ELISA, WB, IP, FC, IF, IHC
BAX	6 23931-1-AP	Rabbit poly	ELISA, WB, IHC, IP
BAX	60267-1-IG	Mouse McAb	ELISA, WB
BBS1	21118-1-AP	Rabbit poly	ELISA, IF, WB, IP
BBS10	12421-2-AP	Rabbit poly	ELISA, WB, IF
BBS5	9 14569-1-AP	Rabbit poly	ELISA, WB, IF, IHC, IP
BBS5	66136-1-IG	Mouse McAb	ELISA, WB
BBS7	18961-1-AP	Rabbit poly	ELISA, WB, IHC, IP
BBS7	13458-1-AP	Rabbit poly	ELISA, IF
BBS8	12505-1-AP	Rabbit poly	ELISA, WB, IP
BBS9	14460-1-AP	Rabbit poly	ELISA, IHC, IF, WB, IP
BCAS2	10414-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
BCL11A	11613-1-AP	Rabbit poly	ELISA, IHC
BCL11B	55414-1-AP	Rabbit poly	ELISA, WB, IP
BCL2	65 12789-1-AP	Rabbit poly	ELISA, WB, IP, IHC, FC
BCL2	60178-1-IG	Mouse McAb	ELISA, WB, FC, IP, IHC
BCMO1	23308-1-AP	Rabbit poly	ELISA, WB, IHC

Antibody Name	Cat No.	Type	Applications
BCO2	14324-1-AP	Rabbit poly	ELISA, WB, IHC, IF
BCRP/ABCG2	10051-1-AP	Rabbit poly	ELISA, WB, IHC
beta Arrestin 1	15361-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
Beta Arrestin 2	10171-1-AP	Rabbit poly	ELISA, WB, IF, IP, IHC
Beta sarcoglycan	11936-1-AP	Rabbit poly	ELISA, WB
Beta Tubulin	13 10094-1-AP	Rabbit poly	ELISA, WB, IF, IP, IHC, FC
beta Tubulin	5 10068-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
beta-Catenin	16 51067-2-AP	Rabbit poly	ELISA, IF, WB, IHC, IP
BHLHA15	25140-1-AP	Rabbit poly	ELISA, WB, IP
BHLHE41	12688-1-AP	Rabbit poly	ELISA, WB, IP
Bif-1	15422-1-AP	Rabbit poly	ELISA, WB, IHC, IF
BIN1	14647-1-AP	Rabbit poly	ELISA, WB, IHC, IP
BIN2	14245-1-AP	Rabbit poly	ELISA, WB, IHC
BIN3	11215-1-AP	Rabbit poly	ELISA, WB, IHC, IP
BIN3	20186-1-AP	Rabbit poly	ELISA, WB
BPNT1	16461-1-AP	Rabbit poly	ELISA, WB, IHC
Brevican	19017-1-AP	Rabbit poly	ELISA, WB
BRN2	14596-1-AP	Rabbit poly	ELISA, IHC, WB
BRN2-Specific	18998-1-AP	Rabbit poly	ELISA, WB, IHC
BRSK2	11589-1-AP	Rabbit poly	ELISA, WB, IHC
BTD	16330-1-AP	Rabbit poly	ELISA, WB, IHC
C1QA	11602-1-AP	Rabbit poly	ELISA, WB
C1QC	16889-1-AP	Rabbit poly	ELISA, WB, IHC

C3 / C3b / C3c
→ CCT4

Antibody Name	Cat No.	Type	Applications
C3 / C3b / C3c	21337-1-AP	Rabbit poly	ELISA, WB
C3 / C3b / C3c	66157-1-IG	Mouse McAb	ELISA, WB, IHC
C9orf72	22637-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
C9orf72	66140-1-IG	Mouse McAb	ELISA, WB, IHC, IF, IP
CA10	12953-1-AP	Rabbit poly	ELISA, IHC, WB
CA4	13931-1-AP	Rabbit poly	ELISA, WB
CABC1	15528-1-AP	Rabbit poly	ELISA, WB, IF
CACNA1B	19681-1-AP	Rabbit poly	ELISA, WB, IHC
CACNA1G	17821-1-AP	Rabbit poly	ELISA, IF
CACNA1S	22279-1-AP	Rabbit poly	ELISA, WB, IHC
CACNB1	13039-1-AP	Rabbit poly	ELISA, WB
CACNB2	21801-1-AP	Rabbit poly	ELISA, WB
CACNG1	18389-1-AP	Rabbit poly	ELISA, IF, IHC
CACNG3	13729-1-AP	Rabbit poly	ELISA, WB
CADM1	14335-1-AP	Rabbit poly	ELISA, WB
CADM3	15660-1-AP	Rabbit poly	ELISA, WB
Calbindin	14479-1-AP	Rabbit poly	ELISA, WB
Calcyphosine	16926-1-AP	Rabbit poly	ELISA, WB
Calcyphosine 2	11924-1-AP	Rabbit poly	ELISA, WB, IHC
Caldesmon	20887-1-AP	Rabbit poly	ELISA, WB, IF, IHC
CALHM1	22042-1-AP	Rabbit poly	ELISA, WB, IHC
Calpastatin	12250-1-AP	Rabbit poly	ELISA, IF, IHC, WB, IP
Calponin	13938-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Calponin	24855-1-AP	Rabbit poly	ELISA, IHC, WB
Calretinin	12278-1-AP	Rabbit poly	ELISA, WB, IHC
CAMK1D	13613-1-AP	Rabbit poly	ELISA, WB
CAMK2	13730-1-AP	Rabbit poly	ELISA, WB
CaMKII alpha-Specific	20666-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CaMKII beta	11533-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CaMKII beta	55218-1-AP	Rabbit poly	ELISA, WB, IHC, IF
CaMKII delta	15443-1-AP	Rabbit poly	ELISA, WB, IHC, IF

Antibody Name	Cat No.	Type	Applications
CaMKII delta-Specific	20667-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CaMKII gamma	12666-2-AP	Rabbit poly	ELISA, IHC, IF, WB, IP
CaMKII gamma-Specific	55140-1-AP	Rabbit poly	ELISA, WB, IHC
CaMKIV	13263-1-AP	Rabbit poly	ELISA, WB
CAMKK1	13624-1-AP	Rabbit poly	ELISA, WB, IHC
CAMKK2	11549-1-AP	Rabbit poly	ELISA, WB, IF
CAMSAP1L1	4 17880-1-AP	Rabbit poly	ELISA, WB, IHC
CAPS1	11490-2-AP	Rabbit poly	ELISA, IHC
Cardiac Troponin I	21652-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Cardiac Troponin T	4 15513-1-AP	Rabbit poly	ELISA, IF, IHC, WB
CARTPT	13212-1-AP	Rabbit poly	ELISA, WB
CASK	55277-1-AP	Rabbit poly	ELISA, WB
Caspase 3	19677-1-AP	Rabbit poly	ELISA, IHC, WB
Caspase 3, p17-specific	42 25546-1-AP	Rabbit poly	ELISA, WB, FC, IHC, IF
CASPR	9 55417-1-AP	Rabbit poly	ELISA, WB, IHC
CBLN2	20558-1-AP	Rabbit poly	ELISA, WB
CBLN4	20559-1-AP	Rabbit poly	ELISA, WB, IHC
CCDC115	20636-1-AP	Rabbit poly	ELISA, WB
CCDC158	20396-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CCDC22	16636-1-AP	Rabbit poly	ELISA, WB, IP
CCDC28A	14807-1-AP	Rabbit poly	ELISA, WB, IF
CCDC28B	11530-1-AP	Rabbit poly	ELISA, WB
CCDC42	20833-1-AP	Rabbit poly	ELISA, WB, IHC
CCK	13074-2-AP	Rabbit poly	ELISA, WB, IHC
CCKAR-specific	16550-1-AP	Rabbit poly	ELISA, IHC
CCKBR-specific	16549-1-AP	Rabbit poly	ELISA, WB, IF
CCP1	4 14067-1-AP	Rabbit poly	ELISA, IHC, WB, IP
CCR5	17476-1-AP	Rabbit poly	ELISA, WB, FC
CCRN4L	10714-1-AP	Rabbit poly	ELISA
CCS	22802-1-AP	Rabbit poly	ELISA, WB, IP
CCT4	21524-1-AP	Rabbit poly	ELISA, WB, IHC

**CD11B/Integrin alpha M
→ CHURC1**


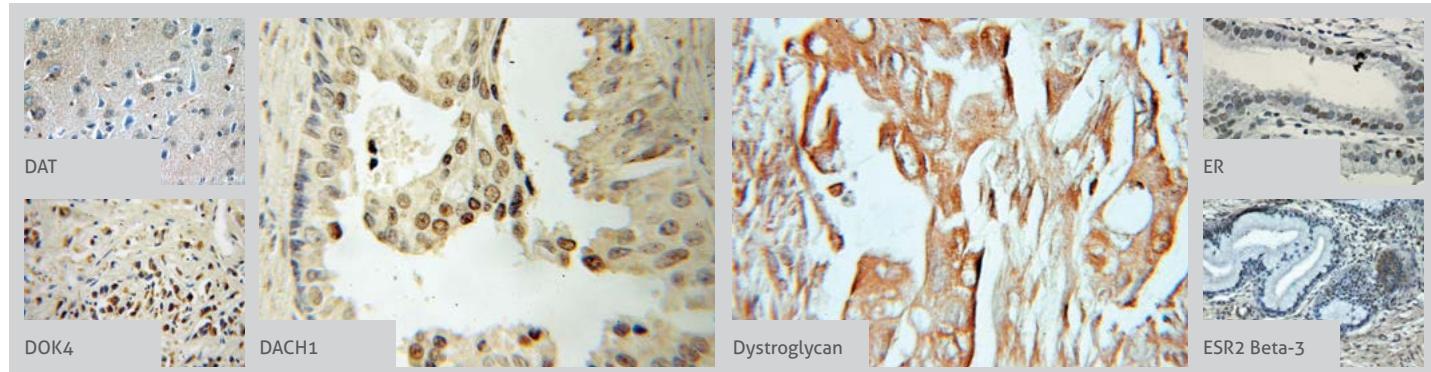
Antibody Name	Cat No.	Type	Applications
CD11B/Integrin alpha M	20991-1-AP	Rabbit poly	ELISA, WB, IHC
CD11B/Integrin alpha M	21851-1-AP	Rabbit poly	ELISA, IHC
CD133	4 18470-1-AP	Rabbit poly	ELISA, WB
CD133	18495-1-AP	Rabbit poly	ELISA, WB
CD133-1,2,3	19946-1-AP	Rabbit poly	ELISA, WB
CD133-1,2,3,5,7	19945-1-AP	Rabbit poly	ELISA, WB
CD138/Syndecan-1	10593-1-AP	Rabbit poly	ELISA, WB, IHC
CD138/Syndecan-1	60185-1-IG	Mouse McAb	ELISA, WB
CD138/Syndecan-1	60185-2-IG	Mouse McAb	ELISA, WB, IHC
CD147	11989-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CD24	18330-1-AP	Rabbit poly	ELISA, WB
CD24	10600-1-AP	Rabbit poly	ELISA, WB
CD3 epsilon	17617-1-AP	Rabbit poly	ELISA, WB, FC, IHC, IP
CD3 epsilon	60181-1-IG	Mouse McAb	ELISA, WB, IHC, FC
CD33	17425-1-AP	Rabbit poly	ELISA, WB, IHC, IF
CD34	14486-1-AP	Rabbit poly	ELISA, WB, IHC
CD71	66180-1-IG	Mouse McAb	ELISA, IHC, WB, IF, FC, IP
CD98	15193-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC
CDA1	12087-2-AP	Rabbit poly	ELISA, IHC, IF, IP, WB
DC5L	12974-1-AP	Rabbit poly	ELISA, WB
CDH23	13496-1-AP	Rabbit poly	ELISA, WB
CDK1	10762-1-AP	Rabbit poly	ELISA, WB
CDK1-Specific	5 19532-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF

Antibody Name	Cat No.	Type	Applications
CDK5	10430-1-AP	Rabbit poly	ELISA, WB
CEND1	13280-1-AP	Rabbit poly	ELISA, WB
CGNL1	18031-1-AP	Rabbit poly	ELISA, WB, IHC
CHAT	20747-1-AP	Rabbit poly	ELISA, WB, IF, IHC, IP
CHAT	24418-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CHL1	25250-1-AP	Rabbit poly	ELISA, WB
CHMP2B	12527-1-AP	Rabbit poly	ELISA, WB, IF, IHC
CHN1	12048-1-AP	Rabbit poly	ELISA, WB, IHC
CHRNA1	10613-1-AP	Rabbit poly	ELISA, IHC, WB
CHRNA10	55291-1-AP	Rabbit poly	ELISA, WB
CHRNA3	4 10333-1-AP	Rabbit poly	ELISA, WB, IHC
CHRNA5	13516-1-AP	Rabbit poly	ELISA, WB
CHRNA6	11388-1-AP	Rabbit poly	ELISA, WB
CHRNA7	21379-1-AP	Rabbit poly	ELISA, WB
CHRNA7	60220-1-IG	Mouse McAb	ELISA, WB
CHRNB1	11553-1-AP	Rabbit poly	ELISA, WB, IHC
CHRNB3	18037-1-AP	Rabbit poly	ELISA, IHC
CHRNB4	22192-1-AP	Rabbit poly	ELISA, WB
Chromogranin A	10529-1-AP	Rabbit poly	ELISA, IHC
Chromogranin A	23342-1-AP	Rabbit poly	ELISA, IHC
Chromogranin A	60135-1-IG	Mouse McAb	ELISA, WB, IHC
CHT1	21848-1-AP	Rabbit poly	ELISA, WB, IHC
CHURC1	12247-1-AP	Rabbit poly	ELISA, IHC, WB

CIN85
→ **Cryptochrome 1**

Antibody Name	Cat No.	Type	Applications	Antibody Name	Cat No.	Type	Applications
CIN85	12132-1-AP	Rabbit poly	ELISA, WB	CPLX2	18149-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CKMT1A	4 15346-1-AP	Rabbit poly	ELISA, IHC, IP, WB	CPLX2	20249-1-AP	Rabbit poly	ELISA, WB, IHC
CKMT2	13207-1-AP	Rabbit poly	ELISA, WB, IHC	CPLX3	16949-1-AP	Rabbit poly	ELISA, WB, IF, IP
Claudin 11	12152-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC	CPLX4	21222-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CLCN1	18595-1-AP	Rabbit poly	ELISA	Creatine Kinase	15891-1-AP	Rabbit poly	ELISA, WB
CLEC14A	23964-1-AP	Rabbit poly	ELISA, WB	Creatine kinase B type	15137-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CLIP-115/CYLN2	25088-1-AP	Rabbit poly	ELISA, WB	Creatine kinase B type-Specific	18713-1-AP	Rabbit poly	ELISA, WB, IHC
CLN3	20386-1-AP	Rabbit poly	ELISA, WB, IHC, IF	Creatine Kinase MM-Specific	18712-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
CLOCK	18094-1-AP	Rabbit poly	ELISA, WB, IP, IF	Creatine Kinase MM-Specific	60177-1-IG	Mouse McAb	ELISA, WB, IHC, IF
CLSTN1	12788-1-AP	Rabbit poly	ELISA, WB	CREB1	12208-1-AP	Rabbit poly	ELISA, IP, WB, IF, IHC, FC
CLTCL1	22283-1-AP	Rabbit poly	ELISA, WB, IHC, IP	CREST	12439-1-AP	Rabbit poly	ELISA, IHC, IP, WB
Clusterin	5 12289-1-AP	Rabbit poly	ELISA, WB, IHC, IP	CREST	60314-1-IG	Mouse McAb	ELISA, WB
Clusterin	66109-1-IG	Mouse McAb	ELISA, WB, IHC	CRH/CRF	10944-1-AP	Rabbit poly	ELISA, WB, IHC
CNGA3	21657-1-AP	Rabbit poly	ELISA, WB	CRHR1	20967-1-AP	Rabbit poly	ELISA, WB
CNN2	21073-1-AP	Rabbit poly	ELISA, WB, IF, IHC	CRIP	11211-1-AP	Rabbit poly	ELISA, WB, IP, IF
CNN3	11509-1-AP	Rabbit poly	ELISA, WB, IHC, IF	CRMP1	10317-1-AP	Rabbit poly	ELISA, WB
CNNM4	14066-1-AP	Rabbit poly	ELISA, WB	CRMP2	14521-1-AP	Rabbit poly	ELISA, WB, IHC, IF
CNPase	13427-1-AP	Rabbit poly	ELISA, WB, IHC	CRMP2	14686-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF
CNPY2, MSAP	66173-1-IG	Mouse McAb	ELISA, WB	CRMP4	13661-1-AP	Rabbit poly	ELISA, WB, IHC
CNPY2,MSAP	14635-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF	CRMP4	18969-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
CNTFR	10796-1-AP	Rabbit poly	ELISA, WB	CRMP5	10525-1-AP	Rabbit poly	ELISA, WB, IHC
CNTN4	12777-1-AP	Rabbit poly	ELISA, WB	CRX	12047-1-AP	Rabbit poly	ELISA, WB, IP
COCH	10635-1-AP	Rabbit poly	ELISA	CRYBA2	15750-1-AP	Rabbit poly	ELISA, WB
Cofilin	10960-1-AP	Rabbit poly	ELISA, WB, IHC	CRYBB1	13760-1-AP	Rabbit poly	ELISA, WB
Cofilin	66057-1-IG	Mouse McAb	ELISA, IHC, IF, WB	CRYBB1	60273-1-IG	Mouse McAb	ELISA, WB
Coilin	5 10967-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IP, IF	CRYBB2	18154-1-AP	Rabbit poly	ELISA, WB
COMT	14754-1-AP	Rabbit poly	ELISA, IHC, IF, FC, IP, WB	CRYBB3	21009-1-AP	Rabbit poly	ELISA, WB, IF
Connexin-43	15386-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IP	CRYGC	17931-1-AP	Rabbit poly	ELISA, WB
CPEB1	13274-1-AP	Rabbit poly	ELISA, WB, IHC	CRYGN	21281-1-AP	Rabbit poly	ELISA, WB
CPI17	11658-1-AP	Rabbit poly	ELISA, WB, IF	Cryptochrome 1	13474-1-AP	Rabbit poly	ELISA, WB, IF, IHC
CPLX1	10246-2-AP	Rabbit poly	ELISA, WB, IP, IHC, IF				

Cryptochrome 2
→ DRD5



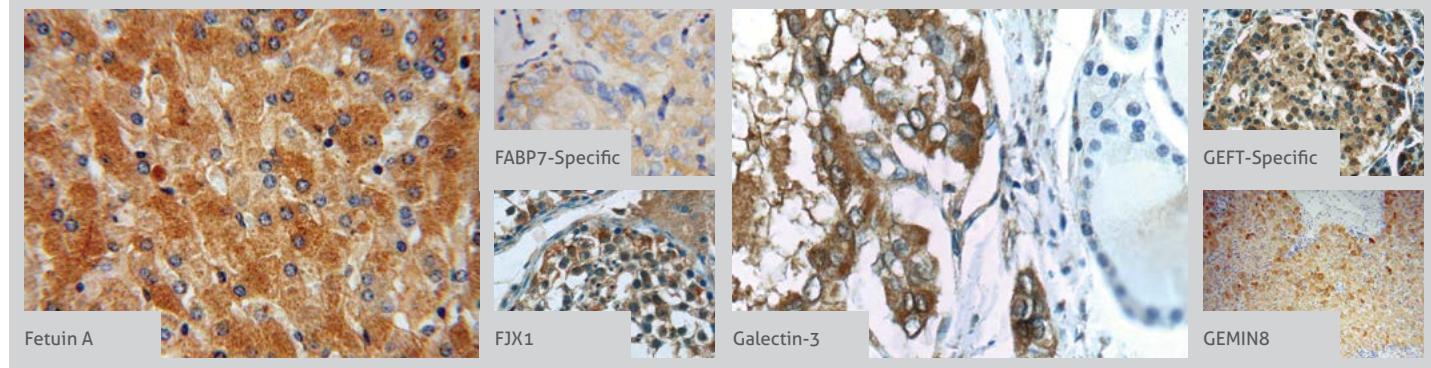
Antibody Name	Cat No.	Type	Applications
Cryptochrome 2	13997-1-AP	Rabbit poly	ELISA, WB
CSHL1	11883-1-AP	Rabbit poly	ELISA, WB, IHC
CSPG4,NG2	55027-1-AP	Rabbit poly	ELISA, WB, IHC
CTBP2	10346-1-AP	Rabbit poly	ELISA, WB, IP
CUX1	11733-1-AP	Rabbit poly	ELISA, WB, IF, IP
CUX2	24902-1-AP	Rabbit poly	ELISA, WB
CWC15	25293-1-AP	Rabbit poly	ELISA, WB, IHC, IP
CYFIP2	16011-1-AP	Rabbit poly	ELISA, WB, IHC, IP
DACH1	19 10914-1-AP	Rabbit poly	ELISA, IHC, IP, WB
DARPP32	10748-1-AP	Rabbit poly	ELISA, IHC, WB
DAT	22524-1-AP	Rabbit poly	ELISA, IHC, WB
DCLK1	21699-1-AP	Rabbit poly	ELISA, WB
DCX	13925-1-AP	Rabbit poly	ELISA, WB, IHC
DDX20	11324-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP, FC
DDX23	10199-2-AP	Rabbit poly	ELISA, WB
DDX5,p68	10804-1-AP	Rabbit poly	ELISA, WB, IHC
DENND1A	25658-1-AP	Rabbit poly	ELISA, IF, IHC, WB
Desmin	16520-1-AP	Rabbit poly	ELISA, WB, IF, IHC, IP
Desmin	60226-1-IG	Mouse McAb	ELISA, WB, IHC
DFNA5	13075-1-AP	Rabbit poly	ELISA, WB
DHRS9	14560-1-AP	Rabbit poly	ELISA, WB
DHX35	24923-1-AP	Rabbit poly	ELISA, IHC, WB
DHX38	10098-2-AP	Rabbit poly	ELISA, WB, IP

Antibody Name	Cat No.	Type	Applications
DISC1-long-specific	15500-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
DISP1	12041-1-AP	Rabbit poly	ELISA, WB
DLG1	55085-1-AP	Rabbit poly	ELISA, WB, IHC
DLG3	18036-1-AP	Rabbit poly	ELISA, WB, IP
DLGAP3	55056-1-AP	Rabbit poly	ELISA, WB
DLK1	8 10636-1-AP	Rabbit poly	ELISA, WB, IHC
DLK2	15680-1-AP	Rabbit poly	ELISA, WB
DLX1	13046-1-AP	Rabbit poly	ELISA, WB
DLX5	10592-1-AP	Rabbit poly	ELISA
DMXL2	24415-1-AP	Rabbit poly	ELISA, WB, IHC
DNAJC5B	17364-1-AP	Rabbit poly	ELISA, WB, IF, IP
DNM2	14605-1-AP	Rabbit poly	ELISA, WB
DNM3	14737-1-AP	Rabbit poly	ELISA, WB, IHC, IP
DNMBP	17191-1-AP	Rabbit poly	ELISA, WB, IP
DOC2B	20574-1-AP	Rabbit poly	ELISA, WB, IF
DOCK7	13000-1-AP	Rabbit poly	ELISA, WB, IP
DOK4	10481-2-AP	Rabbit poly	ELISA, IHC, WB
DOK7	22697-1-AP	Rabbit poly	ELISA, WB, IHC
DOPA decarboxylase	10166-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Dopamine beta Hydroxylase	10777-1-AP	Rabbit poly	ELISA, WB, IF
DRD1	17934-1-AP	Rabbit poly	ELISA, WB
DRD2	55084-1-AP	Rabbit poly	ELISA, WB, IP
DRD5	20310-1-AP	Rabbit poly	ELISA, WB

Drebrin
→ EYA1

Antibody Name	Cat No.	Type	Applications
Drebrin	10260-1-AP	Rabbit poly	ELISA, WB, IP
Drebrin	25770-1-AP	Rabbit poly	ELISA, WB, IF
DTNA	10741-1-AP	Rabbit poly	ELISA, WB, IP
DTNB	12045-1-AP	Rabbit poly	ELISA, WB
DVL3	13444-1-AP	Rabbit poly	ELISA, WB, IF, IP
Dynamin 1	18205-1-AP	Rabbit poly	ELISA, WB
Dynamitin	10031-2-AP	Rabbit poly	ELISA, WB, IP
Dynamitin	10030-2-AP	Rabbit poly	ELISA, WB, IHC, IP
Dynamitin	10032-1-AP	Rabbit poly	ELISA, WB
Dynamitin	11361-1-AP	Rabbit poly	ELISA, WB, IHC, FC
Dynamitin	60257-1-IG	Mouse McAb	ELISA, WB, IHC
DYNC1H1	6 12345-1-AP	Rabbit poly	ELISA, WB, IHC, IF
DYNC1I1	13808-1-AP	Rabbit poly	ELISA, WB, IHC
Dysbindin	11132-1-AP	Rabbit poly	ELISA, WB
Dystroglycan	5 11017-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Dystrophin	12715-1-AP	Rabbit poly	ELISA, WB, IF, IP
EAAT2	22515-1-AP	Rabbit poly	ELISA, WB, IHC, IP
EAAT3	12686-1-AP	Rabbit poly	ELISA, WB, IHC
EAAT4	12876-1-AP	Rabbit poly	ELISA, WB
ECEL1	14222-1-AP	Rabbit poly	ELISA
EDAR	18032-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IP
EFEMP2	12004-1-AP	Rabbit poly	ELISA, WB, IHC, IP
EFTUD2	5 10208-1-AP	Rabbit poly	ELISA, WB, IF, IP
EHD1	24657-1-AP	Rabbit poly	ELISA, WB, IF, IP
EHD2	11440-1-AP	Rabbit poly	ELISA, WB, IHC, IP
EHD3	25320-1-AP	Rabbit poly	ELISA, WB
EHD4	11382-2-AP	Rabbit poly	ELISA, WB, IF
EHF	13608-1-AP	Rabbit poly	ELISA, WB
EIF2AK2, PKR	18244-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
EIF4A3	4 17504-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
EIF4A3	10463-1-AP	Rabbit poly	ELISA, WB, IP

Antibody Name	Cat No.	Type	Applications
EIF4G1	15704-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
ELAVL2	14008-1-AP	Rabbit poly	ELISA, WB, IHC, IP
ELF1	22565-1-AP	Rabbit poly	ELISA, WB, IHC
ELF1	55029-1-AP	Rabbit poly	ELISA, WB
ELOVL4	55023-1-AP	Rabbit poly	ELISA, WB, IHC, IF
Emerin	10351-1-AP	Rabbit poly	ELISA, WB, IP, IF, FC
ENC1	15007-1-AP	Rabbit poly	ELISA, WB, IHC, IP
ENOX1	23750-1-AP	Rabbit poly	ELISA, WB, IHC
ENOX2	5 10423-1-AP	Rabbit poly	ELISA, IHC, WB, IP
EPHA1-specific	18698-1-AP	Rabbit poly	ELISA, WB, IHC, FC
EPHA4	21875-1-AP	Rabbit poly	ELISA, WB, IF, IP
EPHA7	13119-1-AP	Rabbit poly	ELISA
EPHA8	13724-1-AP	Rabbit poly	ELISA, WB
EPHB4	20883-1-AP	Rabbit poly	ELISA, IHC, FC, WB
Ephrin A3	12480-1-AP	Rabbit poly	ELISA, WB, IHC
Ephrin A4-Specific	19685-1-AP	Rabbit poly	ELISA, WB
Ephrin B1	12999-1-AP	Rabbit poly	ELISA, WB
EPS15R	21243-1-AP	Rabbit poly	ELISA, WB
ER	5 21244-1-AP	Rabbit poly	ELISA, IHC, WB
ERC1	22211-1-AP	Rabbit poly	ELISA, WB, IF
ERC2	21396-1-AP	Rabbit poly	ELISA, WB, IF
ERK1/2	9 16443-1-AP	Rabbit poly	ELISA, WB, IHC, IF
ERK1/2	51068-1-AP	Rabbit poly	ELISA, WB, IHC, IF
ESPN	20717-1-AP	Rabbit poly	ELISA, WB
ESR2	4 14007-1-AP	Rabbit poly	ELISA, IHC, WB
ESR2	60197-1-IG	Mouse McAb	ELISA, WB
ESR2 Beta-3	5 55441-1-AP	Rabbit poly	ELISA, IHC
ESR2 Beta-6	55471-1-AP	Rabbit poly	ELISA, WB, IHC
ETV4	10684-1-AP	Rabbit poly	ELISA, WB, IHC
EWS	55191-1-AP	Rabbit poly	ELISA, WB
EYA1	22658-1-AP	Rabbit poly	ELISA, IHC, WB, IF

EYA2
FOXG1


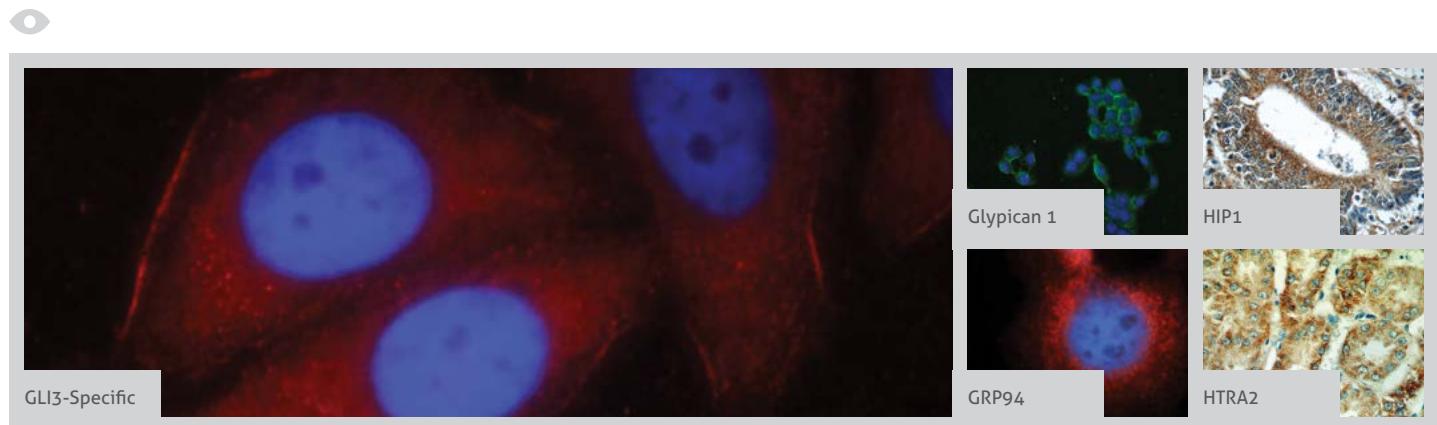
Antibody Name	Cat No.	Type	Applications
EYA2	11314-1-AP	Rabbit poly	ELISA, WB, IHC
EYA3	21196-1-AP	Rabbit poly	ELISA, IF, IHC, WB, IP
EYA4	24691-1-AP	Rabbit poly	ELISA, WB, IF
FA2H	15452-1-AP	Rabbit poly	ELISA, WB, IHC
FABP7	51010-1-AP	Rabbit poly	ELISA, WB, IHC
FABP7	17456-1-AP	Rabbit poly	ELISA, WB
FABP7-Specific	14836-1-AP	Rabbit poly	ELISA, WB, IHC
FBXO7	10696-1-AP	Rabbit poly	ELISA, WB, IHC, IP
FcRn-Specific	16190-1-AP	Rabbit poly	ELISA, WB
FE65	12526-1-AP	Rabbit poly	ELISA, WB, IF, IHC
Ferritin light chain	10727-1-AP	Rabbit poly	ELISA, WB, IP, IHC, IF
Fetuin-A	16571-1-AP	Rabbit poly	ELISA, IHC, WB
Fetuin-A	66094-1-IG	Mouse McAb	ELISA, WB, IF, IP, IHC
fetuin-B	18052-1-AP	Rabbit poly	ELISA, WB, IHC
FEV	25058-1-AP	Rabbit poly	ELISA, WB
FGF1	17400-1-AP	Rabbit poly	ELISA, IHC
FGF13	13201-1-AP	Rabbit poly	ELISA, IHC, WB
FGFR1	60325-1-IG	Mouse McAb	ELISA, WB, IHC, FC
FGFR2	13042-1-AP	Rabbit poly	ELISA, WB, IF
fibrillin 2-Specific	20252-1-AP	Rabbit poly	ELISA, WB, IHC
Fibromodulin	60108-1-IG	Mouse McAb	ELISA, WB, IHC
Fibromodulin	13281-1-AP	Rabbit poly	ELISA, WB
Fibulin 5	12188-1-AP	Rabbit poly	ELISA, WB, IHC, IP

Antibody Name	Cat No.	Type	Applications
Fibulin 5	60081-1-IG	Mouse McAb	ELISA, WB, IHC
Fibulin-1	20425-1-AP	Rabbit poly	ELISA, WB
FIGNL1	17604-1-AP	Rabbit poly	ELISA, WB
Filensin	17492-1-AP	Rabbit poly	ELISA, WB, IF
FIS1	10956-1-AP	Rabbit poly	ELISA, IHC, IF, IP, WB
FJX1	17417-1-AP	Rabbit poly	ELISA, WB, IHC
FKBP1A	10273-1-AP	Rabbit poly	ELISA, IHC, WB
FKBP3	11755-1-AP	Rabbit poly	ELISA, WB
FKBP5	14155-1-AP	Rabbit poly	ELISA, WB, IHC, IP
FKBP52	10655-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP, FC
FKBP52	22623-1-AP	Rabbit poly	ELISA, WB, IHC
FKBP52	66040-1-IG	Mouse McAb	ELISA, WB, IF, FC, IHC
FKBP52	66040-2-IG	Mouse McAb	ELISA, WB, IHC, IF
FMN2	11259-1-AP	Rabbit poly	ELISA, IHC
FMR1	13755-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
FOXA1	20411-1-AP	Rabbit poly	ELISA, WB
FOXA2	22474-1-AP	Rabbit poly	ELISA, IP, WB, IHC
FOXB1	24285-1-AP	Rabbit poly	ELISA, WB
FOXC2	23066-1-AP	Rabbit poly	ELISA, WB
FOXD4	24835-1-AP	Rabbit poly	ELISA, WB
FOXD4L6	22081-1-AP	Rabbit poly	ELISA, WB
FOXE3	55301-1-AP	Rabbit poly	ELISA, WB
FOXG1	12764-1-AP	Rabbit poly	ELISA, WB

FOXH1-Specific
→ GFRA2

Antibody Name	Cat No.	Type	Applications
FOXH1-Specific	20268-1-AP	Rabbit poly	ELISA, WB
FOXJ3	19751-1-AP	Rabbit poly	ELISA, WB
FOXJ3	21240-1-AP	Rabbit poly	ELISA, WB
FOXM1	4 13147-1-AP	Rabbit poly	ELISA, WB, IP
FOXO1	18592-1-AP	Rabbit poly	ELISA, WB, IHC
FOXO3A	10849-1-AP	Rabbit poly	ELISA, WB, IHC, IF
FOXO4	21535-1-AP	Rabbit poly	ELISA, WB, IHC
FOXO4	19121-1-AP	Rabbit poly	ELISA, WB, IF
FOXP1	22051-1-AP	Rabbit poly	ELISA, WB
FOXP2	20529-1-AP	Rabbit poly	ELISA, WB, IP
FOXP3	22228-1-AP	Rabbit poly	ELISA, WB, IP
FOXP3	22173-1-AP	Rabbit poly	ELISA, WB
FOXP4	16772-1-AP	Rabbit poly	ELISA, WB, IHC
FOXQ1	23718-1-AP	Rabbit poly	ELISA, WB
Frizzled 9	13865-1-AP	Rabbit poly	ELISA, WB
FUS/TLS	24 11570-1-AP	Rabbit poly	ELISA, IF, IP, WB, IHC, FC
FUS/TLS	5 60160-1-IG	Mouse McAb	ELISA, WB, IF, IHC, IP
FXR2	12552-1-AP	Rabbit poly	ELISA, WB, IF, IP
GABBR1	13940-1-AP	Rabbit poly	ELISA, WB
GABRA1	12410-1-AP	Rabbit poly	ELISA, WB, IP
GABRA3	12708-1-AP	Rabbit poly	ELISA, WB
GABRA4	12979-1-AP	Rabbit poly	ELISA, WB
GABRB1	20183-1-AP	Rabbit poly	ELISA, WB
GABRD	15623-1-AP	Rabbit poly	ELISA, WB
GABRG1	12871-1-AP	Rabbit poly	ELISA, WB, IHC
GABRG2	14104-1-AP	Rabbit poly	ELISA, WB, IF, IP
GAC-specific	19958-1-AP	Rabbit poly	ELISA, IHC, WB, IP
GAD2	20746-1-AP	Rabbit poly	ELISA, WB, IF, IP
GAD2	21760-1-AP	Rabbit poly	ELISA, WB, IP
GAK	12147-1-AP	Rabbit poly	ELISA, WB
Galectin-3	8 14979-1-AP	Rabbit poly	ELISA, IP, IHC, WB, IF

Antibody Name	Cat No.	Type	Applications
Galectin-3	60207-1-IG	Mouse McAb	ELISA, WB, IF, IHC
GAMT	10880-1-AP	Rabbit poly	ELISA, WB, IHC
GAN	14305-1-AP	Rabbit poly	ELISA, WB
GAP43	16971-1-AP	Rabbit poly	ELISA, WB, IHC, IP
GARS	15831-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
Gastrin	18143-1-AP	Rabbit poly	ELISA, IHC, WB
GATA2	11103-1-AP	Rabbit poly	ELISA, IHC, IF, WB
GATA3	6 10417-1-AP	Rabbit poly	ELISA, WB, IHC
GBP2	11854-1-AP	Rabbit poly	ELISA, WB, IHC
GCAP1	12944-1-AP	Rabbit poly	ELISA, WB
GCHFR	18809-1-AP	Rabbit poly	ELISA, WB, IHC
GCNF	12712-1-AP	Rabbit poly	ELISA, WB, IHC, IP
GDI1	10249-1-AP	Rabbit poly	ELISA, IHC, WB, IP
GDI1	55214-1-AP	Rabbit poly	ELISA, WB
GDI2	10116-1-AP	Rabbit poly	ELISA, WB, IHC
GDI2	55096-1-AP	Rabbit poly	ELISA, WB, IHC
GDI2	9 60078-1-IG	Mouse McAb	ELISA, WB, IF, IHC
GEFT	51004-1-AP	Rabbit poly	ELISA, WB
GEFT	17028-1-AP	Rabbit poly	ELISA, WB, IP
GEFT	66012-1-IG	Mouse McAb	ELISA, WB, IHC
GEFT-Specific	9 14839-1-AP	Rabbit poly	ELISA, WB, IHC, IP
GEMIN4	12408-1-AP	Rabbit poly	ELISA, WB, IP
GEMIN5	24897-1-AP	Rabbit poly	ELISA, WB, IP, IF, IHC
GEMIN6	12307-2-AP	Rabbit poly	ELISA, WB
GEMIN7	10625-1-AP	Rabbit poly	ELISA
GEMIN8	15251-1-AP	Rabbit poly	ELISA, WB, IHC, IP
gephyrin	12681-1-AP	Rabbit poly	ELISA, WB, IP, IF
GFAP	10 16825-1-AP	Rabbit poly	ELISA, WB, IHC
GFAP	60190-1-IG	Mouse McAb	ELISA, WB, IHC, IP
GFAP	23935-1-AP	Rabbit poly	ELISA, WB, IHC, IP
GFRA2	21973-1-AP	Rabbit poly	ELISA, WB, IHC

GFRA2
 → Growth hormone


Antibody Name	Cat No.	Type	Applications
GFRA2	55038-1-AP	Rabbit poly	ELISA, WB, IHC
GFRA3	25379-1-AP	Rabbit poly	ELISA, WB
GH2	55240-1-AP	Rabbit poly	ELISA, WB, IHC
GIRK2	21647-1-AP	Rabbit poly	ELISA, WB
GK3P	14176-1-AP	Rabbit poly	ELISA, WB, IHC
GLAST	20785-1-AP	Rabbit poly	ELISA, IHC, WB
GLI3-Specific	19949-1-AP	Rabbit poly	ELISA, WB, IF, IHC, FC, IP
GLRA1	17951-1-AP	Rabbit poly	ELISA, WB
GLRA3	13145-1-AP	Rabbit poly	ELISA, WB
Glucagon	15954-1-AP	Rabbit poly	ELISA, IHC, WB
GLUT1	21829-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IF
Glutamate receptor 2	11994-1-AP	Rabbit poly	ELISA, WB, IP
Glutamine synthetase	11037-2-AP	Rabbit poly	ELISA, WB, IHC, FC
Glycican 1	16700-1-AP	Rabbit poly	ELISA, WB, IF
Glycican 4	13048-1-AP	Rabbit poly	ELISA, WB
GMF-beta	10690-1-AP	Rabbit poly	ELISA, IHC, WB
GNAQ	13927-1-AP	Rabbit poly	ELISA, WB
GNAS	10150-2-AP	Rabbit poly	ELISA, IP, IHC, WB
GNAT1	55167-1-AP	Rabbit poly	ELISA, WB
GNB5	11045-2-AP	Rabbit poly	ELISA, WB, IHC, IP
GNRHR	19950-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IP
GOPC	12163-1-AP	Rabbit poly	ELISA, WB, IHC
GOT1	14886-1-AP	Rabbit poly	ELISA, WB, IP

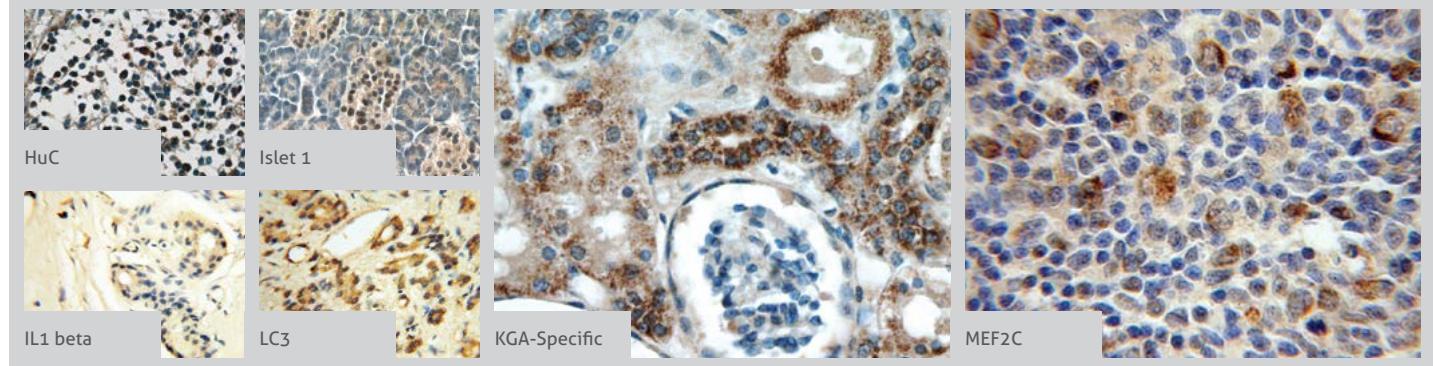
Antibody Name	Cat No.	Type	Applications
GOT1	60317-1-IG	Mouse McAb	ELISA, WB
GPI	15171-1-AP	Rabbit poly	ELISA, WB, IP
GPM6A	15044-1-AP	Rabbit poly	ELISA, WB, IP, IHC
GPNMB	20338-1-AP	Rabbit poly	ELISA, IHC, WB
GPR105	20190-1-AP	Rabbit poly	ELISA, IHC
GPR37/Pael-R	14820-1-AP	Rabbit poly	ELISA, WB
GPR58/TAAR2	24609-1-AP	Rabbit poly	ELISA, WB
GPR83	23850-1-AP	Rabbit poly	ELISA, WB
GPRC5A, RAI3	10309-1-AP	Rabbit poly	ELISA, WB, IHC
GPRIN1	13771-1-AP	Rabbit poly	ELISA, IP, WB
GPRIN3-Specific	20212-1-AP	Rabbit poly	ELISA, WB, IF
GRAF	17747-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Granulin	18410-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Granulin	10053-1-AP	Rabbit poly	ELISA, WB, IHC
GRIA4	23350-1-AP	Rabbit poly	ELISA, WB, IHC
GRID1	13040-1-AP	Rabbit poly	ELISA, WB, IHC
GRIK2	13597-1-AP	Rabbit poly	ELISA, WB
GRIP1	22398-1-AP	Rabbit poly	ELISA, WB, IF, IHC
GRK1	24606-1-AP	Rabbit poly	ELISA, WB
GRK2	13990-1-AP	Rabbit poly	ELISA, WB, IHC, FC
GRK5	17032-1-AP	Rabbit poly	ELISA, WB
GRK6	11439-1-AP	Rabbit poly	ELISA, WB, IP
Growth hormone	17867-1-AP	Rabbit poly	ELISA, WB

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Growth hormone
→ HTRA2

Antibody Name	Cat No.	Type	Applications
Growth hormone	55243-1-AP	Rabbit poly	ELISA, WB, IHC
GRP94	4 14700-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC, IP
GRP94	10979-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IF, IP
GRP94	60012-1-IG	Mouse McAb	ELISA, WB, IF, FC
GSK3A	13419-1-AP	Rabbit poly	ELISA, WB, IHC
GSK3B	10 22104-1-AP	Rabbit poly	ELISA, WB, IF, IHC, IP
GSK3B	15113-1-AP	Rabbit poly	ELISA, WB, IHC, IP
GSK3B	51065-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
GSK3B	24198-1-AP	Rabbit poly	ELISA, WB, IF, IHC, FC, IP
GSTP1	8 15902-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP, FC
GTF2H2	16005-1-AP	Rabbit poly	ELISA, WB
GUCY2D	55127-1-AP	Rabbit poly	ELISA, WB
GUCY2F	25252-1-AP	Rabbit poly	ELISA, WB, IHC
HAP1	25133-1-AP	Rabbit poly	ELISA, WB, IHC, IF
Harmonin	51028-2-AP	Rabbit poly	ELISA, WB, IHC
Harmonin	11358-1-AP	Rabbit poly	ELISA, WB, IHC, IF
HAS3	15609-1-AP	Rabbit poly	ELISA, WB
HCN2	55245-1-AP	Rabbit poly	ELISA, WB, IP, IHC
HCN4	55224-1-AP	Rabbit poly	ELISA, WB
HES5	22666-1-AP	Rabbit poly	ELISA, WB, IHC
HEXA	11317-1-AP	Rabbit poly	ELISA, WB, IHC
HIF1a	12 20960-1-AP	Rabbit poly	ELISA, IHC, IF, FC, WB
HIP1	4 22231-1-AP	Rabbit poly	ELISA, WB, IHC
HIP14; ZDHHC17	15465-1-AP	Rabbit poly	ELISA, WB, IHC
HIP1R	16814-1-AP	Rabbit poly	ELISA, WB, IHC
HIP1-Specific	19688-1-AP	Rabbit poly	ELISA, WB, IHC
HLA-DRA	17221-1-AP	Rabbit poly	ELISA, IHC
HLA-DRB5	21702-1-AP	Rabbit poly	ELISA, WB, IHC
HLF	12870-1-AP	Rabbit poly	ELISA, WB
HMGB1	16 10829-1-AP	Rabbit poly	ELISA, WB, IHC, IP

Antibody Name	Cat No.	Type	Applications
HNRNPA1	4 11176-1-AP	Rabbit poly	ELISA, WB, IHC
HNRNPA2B1	4 14813-1-AP	Rabbit poly	ELISA, WB, IHC, IP
HNRNPA3	25142-1-AP	Rabbit poly	ELISA, WB, IF
HNRNPC	11760-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC, IP
HNRNPF	14974-1-AP	Rabbit poly	ELISA, WB, IHC
HNRNPH1	14774-1-AP	Rabbit poly	ELISA, WB, IHC
HNRNPK	11426-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC, IP
HNRNPR	15018-1-AP	Rabbit poly	ELISA, WB, IHC
HNRNPU	14599-1-AP	Rabbit poly	ELISA, WB, IF
HNRNPU	16365-1-AP	Rabbit poly	ELISA, WB, IP, IHC
HOMER1	12433-1-AP	Rabbit poly	ELISA, WB, FC, IHC, IP
HOMER2	11143-1-AP	Rabbit poly	ELISA, WB
HOMER3	16624-1-AP	Rabbit poly	ELISA, WB
HPCAL4	12470-1-AP	Rabbit poly	ELISA, WB, IHC
HPGDS	22522-1-AP	Rabbit poly	ELISA, WB, IHC
HPS1	15077-1-AP	Rabbit poly	ELISA, WB
HPS3	10768-1-AP	Rabbit poly	ELISA, WB, IHC, IF
HPS5	13901-1-AP	Rabbit poly	ELISA, WB, IHC, IF
HPS6	11371-1-AP	Rabbit poly	ELISA, WB, IHC
HRC	18142-1-AP	Rabbit poly	ELISA, WB
HRH1	13413-1-AP	Rabbit poly	ELISA, WB, IHC
HRH2	13414-1-AP	Rabbit poly	ELISA, WB
HS1BP3	12845-1-AP	Rabbit poly	ELISA, WB, IHC
Hsc70	7 10654-1-AP	Rabbit poly	ELISA, IHC, IP, WB
HSD17B6	11855-1-AP	Rabbit poly	ELISA, WB, IHC
HSP27	8 18284-1-AP	Rabbit poly	ELISA, WB, IF
HSP90AB1	11405-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC, IP
HSPB2	21755-1-AP	Rabbit poly	ELISA, WB, IHC, IF
HTR3A	10443-1-AP	Rabbit poly	ELISA, IHC, WB, IP
HTRA2	4 15775-1-AP	Rabbit poly	ELISA, WB, IHC, IP

HuC
 **KLC1**


Antibody Name	Cat No.	Type	Applications	Antibody Name	Cat No.	Type	Applications
HuC	 55047-1-AP	Rabbit poly	ELISA, WB, IHC	ITPR1-specific	19962-1-AP	Rabbit poly	ELISA, WB, IHC
HuC/D	13032-1-AP	Rabbit poly	ELISA, WB, IHC, IP	IVNS1ABP	14741-1-AP	Rabbit poly	ELISA, WB, IHC
IBA1	 10904-1-AP	Rabbit poly	ELISA, WB, IF, IP, IHC	JNK	 51151-1-AP	Rabbit poly	ELISA, WB, IP
ICA1L	15622-1-AP	Rabbit poly	ELISA, IF	JNK	10023-1-AP	Rabbit poly	ELISA, WB, IHC, IP
ICA1L	18021-1-AP	Rabbit poly	ELISA, WB, IHC, IF	JNK	24164-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF
IDE	21728-1-AP	Rabbit poly	ELISA, WB, IHC, IP	JTV1	 10424-1-AP	Rabbit poly	ELISA, WB, IF, IHC, IP
IFNGR1	10808-1-AP	Rabbit poly	ELISA, WB, IHC, IP	KALRN	19740-1-AP	Rabbit poly	ELISA, WB
IFNGR2	10266-1-AP	Rabbit poly	ELISA, WB	KARS	14951-1-AP	Rabbit poly	ELISA, WB, IHC
IFT57	 11083-1-AP	Rabbit poly	ELISA, WB, IHC, IP	KCNE1	15150-1-AP	Rabbit poly	ELISA, WB, IF
IGF1A-Specific	 20214-1-AP	Rabbit poly	ELISA, WB, IP, IF, IHC	KCNJ5	18063-1-AP	Rabbit poly	ELISA, WB
IGF1B-Specific	20215-1-AP	Rabbit poly	ELISA, WB, IHC	KCNN3	17188-1-AP	Rabbit poly	ELISA, IF, WB
IL1 beta	  16806-1-AP	Rabbit poly	ELISA, IHC, IF, WB	KGA/GAC	 12855-1-AP	Rabbit poly	ELISA, IHC, IP, WB
IL1 beta	60136-1-IG	Mouse McAb	ELISA, WB, IHC, IP	KGA/GAM/GAC	23549-1-AP	Rabbit poly	ELISA, IHC, IF, WB, IP
IMPDH1	22092-1-AP	Rabbit poly	ELISA, WB, IHC, IP	KGA-Specific	 20170-1-AP	Rabbit poly	ELISA, IHC, WB, IP
INPP5A	21723-1-AP	Rabbit poly	ELISA, WB	KIAA1191	20637-1-AP	Rabbit poly	ELISA, WB, IF
INPP5B	15141-1-AP	Rabbit poly	ELISA, WB, IHC	KIAA1199	21129-1-AP	Rabbit poly	ELISA, WB, IHC, IF
INSR	20433-1-AP	Rabbit poly	ELISA, WB, IP	KIF5A	21186-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Integrin beta-1	12594-1-AP	Rabbit poly	ELISA, WB	KIF5B	21632-1-AP	Rabbit poly	ELISA, IHC, WB, IP
Integrin beta-4	21738-1-AP	Rabbit poly	ELISA, WB, IHC, FC	Kir2.1	19965-1-AP	Rabbit poly	ELISA, WB, IHC
Interferon gamma	 15365-1-AP	Rabbit poly	ELISA, IHC, WB	Kir2.2	14135-1-AP	Rabbit poly	ELISA, WB, FC
Islet 1	 15661-1-AP	Rabbit poly	ELISA, WB, IP, IHC	KIRREL3	18055-1-AP	Rabbit poly	ELISA, WB
ITM2C	13601-1-AP	Rabbit poly	ELISA, WB, IHC	KISS1R-Specific	15505-1-AP	Rabbit poly	ELISA, WB, IF
ITM2C	60095-1-IG	Mouse McAb	ELISA, WB, IF	KLC1	19028-1-AP	Rabbit poly	ELISA, WB, IHC, IF

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KLF12
→ **MEF2C**

Antibody Name	Cat No.	Type	Applications	Antibody Name	Cat No.	Type	Applications
KLF12	13156-1-AP	Rabbit poly	ELISA, WB	LMX1B	18278-1-AP	Rabbit poly	ELISA, WB, IF
KLF4	5 11880-1-AP	Rabbit poly	ELISA, IHC, IP, IF, WB	LPHN3	20045-1-AP	Rabbit poly	ELISA, WB, IP
KLF5	21017-1-AP	Rabbit poly	ELISA, WB, IP	LRAT	12815-1-AP	Rabbit poly	ELISA, WB
KLF7	13125-1-AP	Rabbit poly	ELISA, WB, IP	LRP2-Specific	19700-1-AP	Rabbit poly	ELISA, WB, IHC
KLHL2	14449-1-AP	Rabbit poly	ELISA, WB	LRRTM1	14288-1-AP	Rabbit poly	ELISA, WB, IHC
KLHL20	18111-1-AP	Rabbit poly	ELISA, WB, IHC	LRRTM4	16976-1-AP	Rabbit poly	ELISA
KLHL3	16951-1-AP	Rabbit poly	ELISA, WB, IHC, IP	LSAMP	13600-1-AP	Rabbit poly	ELISA, WB
Kv1.2	14235-1-AP	Rabbit poly	ELISA, WB	LTBP1	22065-1-AP	Rabbit poly	ELISA, WB, IHC
Kv1.3	14079-1-AP	Rabbit poly	ELISA, WB	LTBP2	17708-1-AP	Rabbit poly	ELISA, WB, IHC
Kv1.4-Specific	19697-1-AP	Rabbit poly	ELISA, WB	Lumican	10677-1-AP	Rabbit poly	ELISA, WB
LAMA4	10465-1-AP	Rabbit poly	ELISA, WB, IHC	LZIC	14543-1-AP	Rabbit poly	ELISA, WB
LAMP1	55273-1-AP	Rabbit poly	ELISA, WB, IF	LZTS1	20878-1-AP	Rabbit poly	ELISA, WB, IF, IP
LAMP3	12632-1-AP	Rabbit poly	ELISA, WB, IHC	MAGI1	55048-1-AP	Rabbit poly	ELISA, WB
LASP1	10515-1-AP	Rabbit poly	ELISA, WB, IF, IHC, IP	MAGOH	12347-1-AP	Rabbit poly	ELISA, IHC, IP, WB
LC3	6 12135-1-AP	Rabbit poly	ELISA, WB, IF	MAOA	5 10539-1-AP	Rabbit poly	ELISA, WB, IHC, IP
LC3	14600-1-AP	Rabbit poly	ELISA, IHC, FC, IP, IF, WB	MAP1B	21633-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IF
LC3A/B	5 66139-1-IG	Mouse McAb	ELISA, IHC, WB, FC	MAP1S	15695-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
LC3A-Specific	18722-1-AP	Rabbit poly	ELISA, WB, IF, FC	MAP2	9 17490-1-AP	Rabbit poly	ELISA, WB, IF, IP, IHC
LC3B-Specific	6 18725-1-AP	Rabbit poly	ELISA, IF, IHC, FC, WB	MAPK7	10036-2-AP	Rabbit poly	ELISA, WB
LDB1	16650-1-AP	Rabbit poly	ELISA, WB, IHC	MAPK7	11164-1-AP	Rabbit poly	ELISA, WB
LEPR	20966-1-AP	Rabbit poly	ELISA, IHC, IF, WB	Marcks	6 10004-2-IG	Rabbit poly	ELISA, WB, IHC
LGI1	12483-1-AP	Rabbit poly	ELISA, WB	MARK2	15492-1-AP	Rabbit poly	ELISA, WB, IHC, IP
LGI3	21919-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC	MARK3	12932-1-AP	Rabbit poly	ELISA, WB
LHX5	21567-1-AP	Rabbit poly	ELISA, WB	MARK4	20174-1-AP	Rabbit poly	ELISA, IHC
LIMK1	19699-1-AP	Rabbit poly	ELISA, WB, IHC, IP	MATR3	12202-2-AP	Rabbit poly	ELISA, WB, IF, IP
LIMK2	12350-1-AP	Rabbit poly	ELISA, WB	MCCC1	14861-1-AP	Rabbit poly	ELISA, WB, IHC
LIN28	21 11724-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF	MEF2A	12382-1-AP	Rabbit poly	ELISA, WB
Lin28A-specific	16177-1-AP	Rabbit poly	ELISA, WB, IHC	MEF2C	6 10056-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF
LIN7B	12732-1-AP	Rabbit poly	ELISA, WB	MEF2C	16953-1-AP	Rabbit poly	ELISA, WB
LIN7C	14656-1-AP	Rabbit poly	ELISA, WB	MEF2C	18290-1-AP	Rabbit poly	ELISA, WB, IHC
LINGO1	19097-1-AP	Rabbit poly	ELISA, WB	MEF2C	18291-1-AP	Rabbit poly	ELISA, WB, IHC

ALZHEIMER'S DISEASE PREVENTION: IT'S IN THE BLOOD

By Ashley Juavinett

A breakthrough relating to Alzheimer's disease prediction has made big news in the mainstream media in the last few weeks. The paper at the center of the excitement was published July 3 in the journal *Alzheimer's and Dementia* and describes potential, blood-based markers for the possible early detection of Alzheimer's disease. Proteintech's Neuroscience Guest Blogger Ashley Juavinett has covered the story, taking a look at previous work leading up to July's paper, and what the implications of the work might be...

For decades, clinicians have known about two major biomarkers for Alzheimer's Disease (AD): beta-amyloid plaques and tau tangles. However, these markers are usually only found after behavioral symptoms are already evident and, therefore, when the disease has progressed significantly. It means these markers are not particularly useful for prognosis. Encouragingly, an international team of scientists has identified a set of proteins found in blood plasma that may be highly predictive of AD onset, opening exciting possibilities for early AD prognosis and preventative treatment.

Rather than subject patients to repeated brain scans or extract cerebrospinal fluid samples (the two methods currently used to look for biomarkers), the academic and industry-affiliated research team has been exploring a safer and less costly way to collect physiological information about AD patients through blood samples. A few years ago, they validated their technique of measuring blood plasma proteins with proteomics and correlated those measurements with *in vivo* structural changes assessed with MRI. They found that an increase in Clusterin, a known chaperone of amyloid proteins, was associated with progression of AD (Thambisetty et al., 2010).

In their earlier paper, the team extended their findings to both humans and mice, which allowed them to ask more detailed questions about the exact function of Clusterin in AD. The study revealed that transgenic model AD mice showed much more plasma clusterin than wild-type. In a highly publicized follow-up paper that was released last week, the authors expanded their subject pool and added predictive modeling (Hye et al., 2014). The crucial step in finding pre-disease markers is identifying individuals that are likely to develop the disease. For this purpose, the researchers recruited a group of participants with Mild Cognitive Impairment (MCI), in addition to an AD group (AD) and a healthy control group. One of the strengths of this study was the sheer number of subjects: 1148 in total.

The researchers measured two different Alzheimer's endophenotypes – hippocampal/cortical degeneration and cognitive decline – to investigate

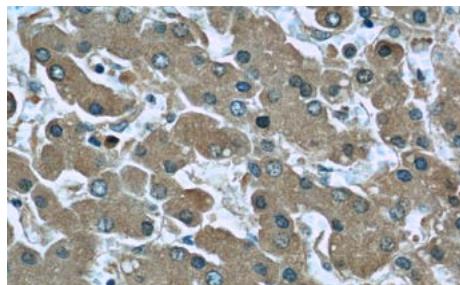
which proteins in the blood plasma could predict differences in these outcomes. Replicating their prior work, they found a set of proteins (including Clusterin) that correlated with both anatomical and behavioral measures. In addition, another protein known as RANTES, which has a role in recruiting leukocytes to inflammatory tissue, was related to cortical atrophy in the MCI patients. Still, the key question was, would these differences in blood proteins predict transition from MCI to AD?

In order to determine this, they used a common machine-learning algorithm known as a Naïve Bayes classifier. To do this analysis, you first train the classifier on all of the information (blood plasma protein levels) from 75% of the data, and then see if it can predict the outcome (in this case, conversion to AD) for the other 25% of the data. The classifier gives you a set of values that – with certain accuracy – mark the border between the two groups, AD and control.

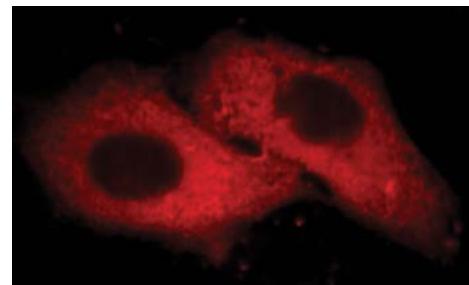
Remarkably, the model performed very well with data from just 10 different proteins, with 87% accuracy. In addition to Clusterin and RANTES, Transthyretin (TTR), Cystatin C, A1AcidG, ICAM1, CC4, PEDF, A1AT, and ApoC3 – most of which have antibodies available from Proteintech – all had predictive power. More research is required to figure out exactly how this new knowledge can be implemented in the wider clinical setting, but the ramifications of it are extremely promising: a broader set of protein targets that may collectively be involved in early AD progression.

Speaking to the BBC, senior author Simon Lovestone stated, "The next step will be to validate our findings in further sample sets, to see if we can improve accuracy and reduce the risk of misdiagnosis, and to develop a reliable test suitable to be used by doctors." So while they aren't quite up to par for using in the clinic at the moment – largely because they may lead to troubling false positives – the findings are a huge step forward for predictive analytics in AD. In the words of one of the Alzheimer's experts interviewed by the BBC, these findings herald "A step towards making Alzheimer's a preventable disease."

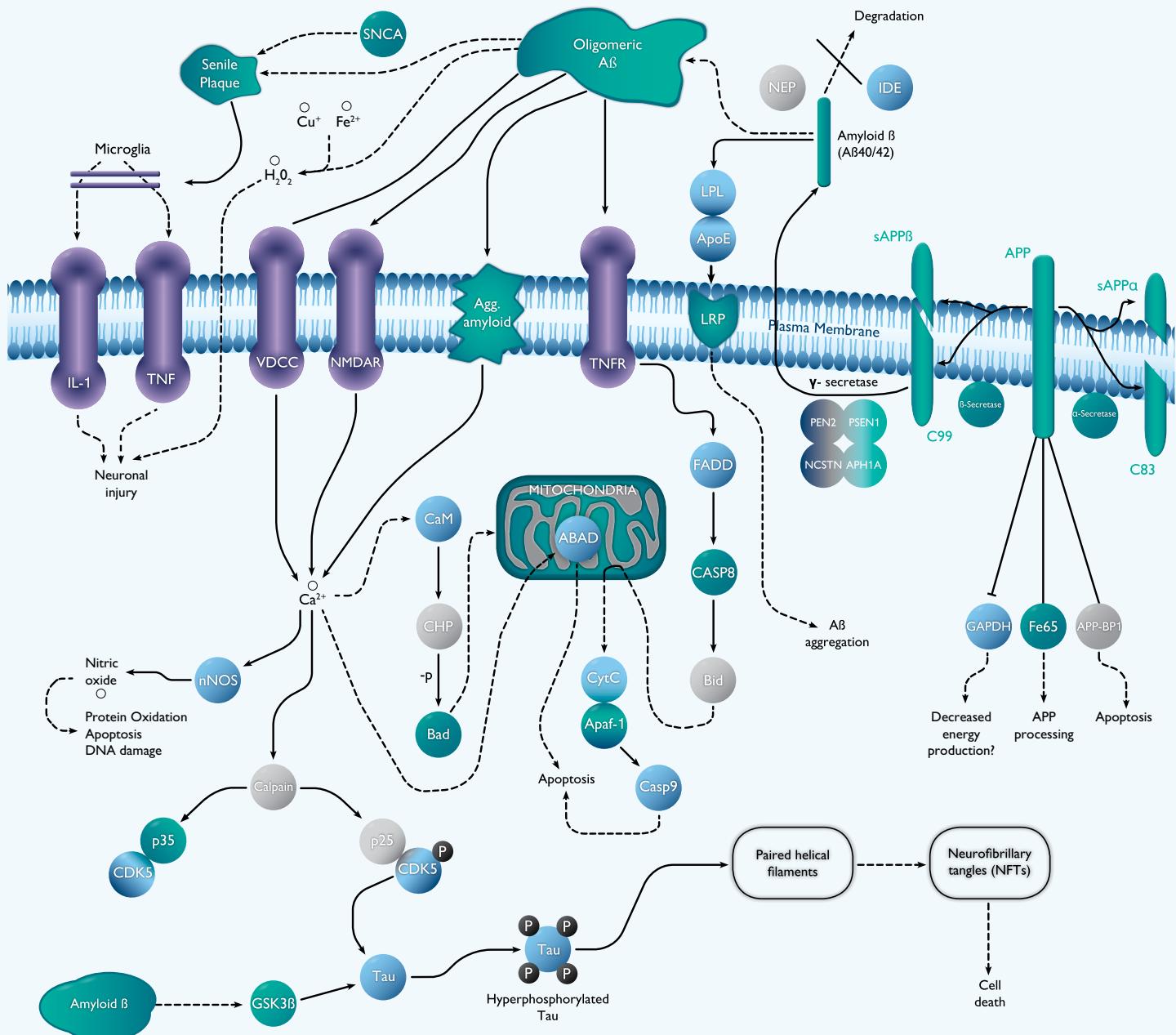
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Immunohistochemistry of paraffin-embedded human liver slide using 66097-1-Ig (ORM1 Antibody) at dilution of 1:50.



Immunofluorescent analysis of HepG2 cells, using ORM1 antibody 66097-1-Ig at 1:25 dilution and Rhodamine-labeled goat anti-mouse IgG (red).



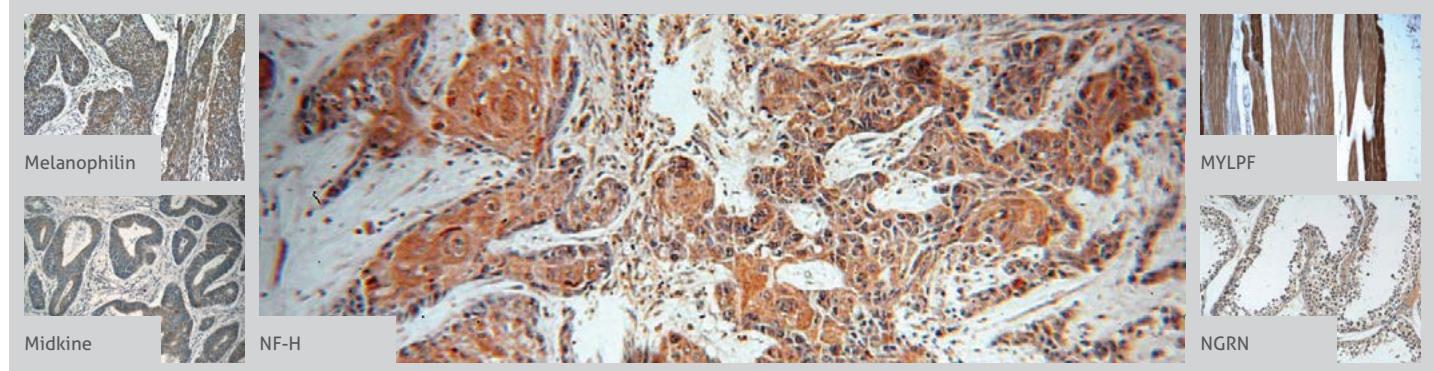
ALZHEIMER'S DISEASE SIGNALING PATHWAY

Legend

Indirectly Activates	→
Association	—
Inhibits	—
Phosphorylates	+P
Dissociation	+
Directly Activates	→

Alzheimer's disease (AD) is a chronic disorder that slowly destroys neurons and causes serious cognitive disability. AD is associated with senile plaques and neurofibrillary tangles (NFTs). Amyloid-beta, a major component of senile plaques, has various pathological effects on cell and organelle function. Extracellular amyloid-beta oligomers may activate caspases through activation of cell-surface death receptors. Alternatively, intracellular amyloid-beta may contribute to pathology by facilitating tau hyperphosphorylation, disrupting mitochondria function and triggering calcium dysfunction.

To date, genetic studies have revealed four genes that may be linked to autosomal dominant or familial early onset AD (FAD). These four genes include: amyloid precursor protein (APP), presenilin 1 (PS1), presenilin 2 (PS2), and apolipoprotein E (ApoE). All mutations associated with APP and PS proteins can lead to an increase in the production of amyloid-beta peptides, specifically the more amyloidogenic form, amyloid-beta 42. FAD-linked PS1 mutation downregulates the unfolded protein response and leads to vulnerability to ER stress.

MEF2C
→ **MYLK2**


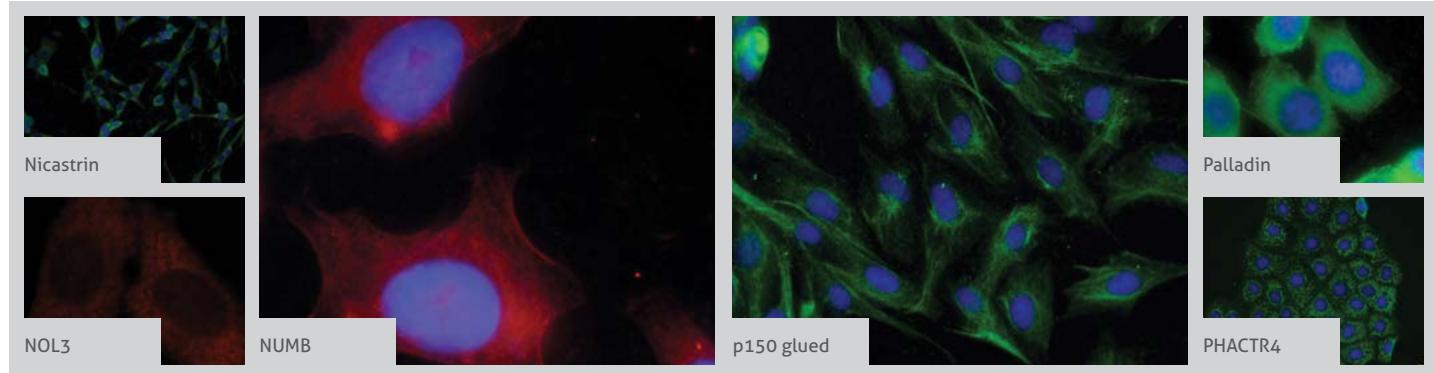
Antibody Name	Cat No.	Type	Applications	Antibody Name	Cat No.	Type	Applications
MEF2C	20326-1-AP	Rabbit poly	ELISA, WB, IHC	MSI2	10770-1-AP	Rabbit poly	ELISA, WB, IHC
MEF2C-Specific	18293-1-AP	Rabbit poly	ELISA, IHC	MT3	12179-1-AP	Rabbit poly	ELISA, IHC
MEIS2	11550-1-AP	Rabbit poly	ELISA, IHC, WB	MTPN	13508-1-AP	Rabbit poly	ELISA, WB, IF, IHC
MEIS3	12775-1-AP	Rabbit poly	ELISA, WB	mu Crystallin	12495-1-AP	Rabbit poly	ELISA, WB, IHC
Melanophilin	5 10338-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP	MUPCDH	25619-1-AP	Rabbit poly	ELISA, WB, IHC
Melanophilin	66092-1-IG	Mouse McAb	ELISA, WB, IF, IHC	MYBPC1	22900-1-AP	Rabbit poly	ELISA, WB, IHC
MFN1	4 13798-1-AP	Rabbit poly	ELISA, WB, IHC	MYBPC3	19977-1-AP	Rabbit poly	ELISA, WB
MFN2	12186-1-AP	Rabbit poly	ELISA, WB, IP, IHC	Myelin basic protein	10458-1-AP	Rabbit poly	ELISA, WB, IHC
MGLL	14986-1-AP	Rabbit poly	ELISA, IHC, WB	MYH2-specific	55069-1-AP	Rabbit poly	ELISA, IHC, WB
mGluR1	19955-1-AP	Rabbit poly	ELISA, WB	MYH3	22287-1-AP	Rabbit poly	ELISA, WB
mGluR2	19956-1-AP	Rabbit poly	ELISA, WB	MYH4-Specific	4 20140-1-AP	Rabbit poly	ELISA, WB, IHC
Midkine	6 11009-1-AP	Rabbit poly	ELISA, IF, IHC	MYH6	22281-1-AP	Rabbit poly	ELISA, IHC, WB
MINK1	13137-1-AP	Rabbit poly	ELISA, WB, IHC	MYH7-specific	22280-1-AP	Rabbit poly	ELISA, IHC, WB, IP
MIP	17977-1-AP	Rabbit poly	ELISA, WB	MYL1	15814-1-AP	Rabbit poly	ELISA, WB
MITF	13092-1-AP	Rabbit poly	ELISA, WB, FC, IP	MYL12A	16287-1-AP	Rabbit poly	ELISA, WB, IHC
MKRN2	12238-1-AP	Rabbit poly	ELISA, WB	MYL12B	10324-1-AP	Rabbit poly	ELISA, WB, IHC
MOG	12690-1-AP	Rabbit poly	ELISA, WB	MYL3	10913-1-AP	Rabbit poly	ELISA, IHC, WB, IP
MOXD1	11545-1-AP	Rabbit poly	ELISA, WB	MYL4	13229-1-AP	Rabbit poly	ELISA, WB
MPP1	14715-1-AP	Rabbit poly	ELISA, WB	MYL5	14249-1-AP	Rabbit poly	ELISA, WB
MPP5	7 17710-1-AP	Rabbit poly	ELISA, WB, IP	MYL7	17283-1-AP	Rabbit poly	ELISA, WB, IHC, IP
MPPED2	13270-1-AP	Rabbit poly	ELISA, WB, IF, IHC	MYL9	15354-1-AP	Rabbit poly	ELISA, WB, IHC, IF
MPZ,PO	4 10572-1-AP	Rabbit poly	ELISA, WB, IF	MYLK	21642-1-AP	Rabbit poly	ELISA, WB, IF
MRAS	14213-1-AP	Rabbit poly	ELISA, WB, IHC	MYLK2	21173-1-AP	Rabbit poly	ELISA, WB

00 This number shows the amount of times our antibody has been cited in a publication.

MYLK3
→ **NHP2L1**

Antibody Name	Cat No.	Type	Applications
MYLK3	21527-1-AP	Rabbit poly	ELISA, WB, IHC
MYLK4	24309-1-AP	Rabbit poly	ELISA, WB, IHC
MYLPF	16052-1-AP	Rabbit poly	ELISA, WB, IHC
MYO18A	14611-1-AP	Rabbit poly	ELISA, WB, IP
MYO19	23906-1-AP	Rabbit poly	ELISA, WB, IF
MYO7A	20720-1-AP	Rabbit poly	ELISA, WB, IF
MYO7B	14467-1-AP	Rabbit poly	ELISA, IHC
Myocilin	14238-1-AP	Rabbit poly	ELISA, WB
Myoferlin	19548-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC
MYOM1-Specific	20360-1-AP	Rabbit poly	ELISA, WB, IHC
MYOM3	17692-1-AP	Rabbit poly	ELISA, WB, IP
Myosin Light Chain 2	27 10906-1-AP	Rabbit poly	ELISA, WB, IP, IHC
Myosin Light Chain 2	60229-1-IG	Mouse McAb	ELISA, WB, IHC
MYOT	10731-1-AP	Rabbit poly	ELISA, WB, IHC
MYPN-Specific	16180-1-AP	Rabbit poly	ELISA, WB, IF, IHC
NAB2	19601-1-AP	Rabbit poly	ELISA, WB, IHC, IP
NALP3	4 19771-1-AP	Rabbit poly	ELISA, WB, IHC, IF
NANOG	14295-1-AP	Rabbit poly	ELISA, IF, WB
NBAS	14683-1-AP	Rabbit poly	ELISA, WB, IF
N-cadherin	8 13769-1-AP	Rabbit poly	ELISA, WB, IHC
N-cadherin	22018-1-AP	Rabbit poly	ELISA, IP, WB, IHC, FC
NCALD	12925-1-AP	Rabbit poly	ELISA, WB
NCALD	66088-1-IG	Mouse McAb	ELISA, WB, IHC
NCAM1/CD56	14255-1-AP	Rabbit poly	ELISA, WB, IHC, FC
NCAM1/CD56	60238-1-IG	Mouse McAb	ELISA, WB, IHC
NCAM2	13850-1-AP	Rabbit poly	ELISA, WB, IHC, IP
NCKAP1	12140-1-AP	Rabbit poly	ELISA, WB, IHC
NCS1	10506-2-AP	Rabbit poly	ELISA, WB, IP
NDE1	5 10233-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
NDEL1	17262-1-AP	Rabbit poly	ELISA, WB, IP
NDRG2	12015-1-AP	Rabbit poly	ELISA, WB, IP

Antibody Name	Cat No.	Type	Applications
NDRG4	12184-1-AP	Rabbit poly	ELISA, WB, IHC, IF
NDUFV1	11238-1-AP	Rabbit poly	ELISA, WB, IHC, IP
NEB-Specific	19706-1-AP	Rabbit poly	ELISA, IHC
NELF	12244-1-AP	Rabbit poly	ELISA, IHC, WB
NELL2	11268-1-AP	Rabbit poly	ELISA, WB, IHC
NENF	60131-1-IG	Mouse McAb	ELISA, IHC, WB
Nestin	5 19483-1-AP	Rabbit poly	ELISA, WB, IHC, IF
Netrin G1	12910-2-AP	Rabbit poly	ELISA, WB
NEU4	7 12995-1-AP	Rabbit poly	ELISA, IHC, WB, IP
NeuN	23060-1-AP	Rabbit poly	ELISA, WB, IHC
NEURL	18898-1-AP	Rabbit poly	ELISA, WB, IP
NEUROD1	12081-1-AP	Rabbit poly	ELISA, IHC, WB, IP
Neurogranin	10440-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Neurokinin-1 receptor	17942-1-AP	Rabbit poly	ELISA, WB
Neuropilin 1	60067-1-IG	Mouse McAb	ELISA, WB, IHC, IF
Neuroserpin	12558-1-AP	Rabbit poly	ELISA, WB
Neurotrophin 4	12297-1-AP	Rabbit poly	ELISA, WB, IHC, IF
neurturin-Specific	19709-1-AP	Rabbit poly	ELISA, WB, IHC
NF-H	18934-1-AP	Rabbit poly	ELISA, WB, IHC
NF-H	21471-1-AP	Rabbit poly	ELISA, WB, IHC
NFIA	11750-1-AP	Rabbit poly	ELISA, WB, IHC, IP
NFIL3	11773-1-AP	Rabbit poly	ELISA, WB, IP
NFKB1	5 14220-1-AP	Rabbit poly	ELISA, WB, IF, IP
NFKB1	23576-1-AP	Rabbit poly	ELISA, WB, IHC, IF
NFKB1,p105,p50-Specific	15506-1-AP	Rabbit poly	ELISA, WB
NF-L	12998-1-AP	Rabbit poly	ELISA, WB, IP, IHC, IF
NF-L	60189-1-IG	Mouse McAb	ELISA, WB
NF-M-Specific	20664-1-AP	Rabbit poly	ELISA, IF, WB, IHC, IP
NGB	13499-1-AP	Rabbit poly	ELISA, WB, IHC
NGRN	14885-1-AP	Rabbit poly	ELISA, WB, IHC
NHP2L1	15802-1-AP	Rabbit poly	ELISA, WB, IF, IHC

Nicastrin
 **OLIG2**


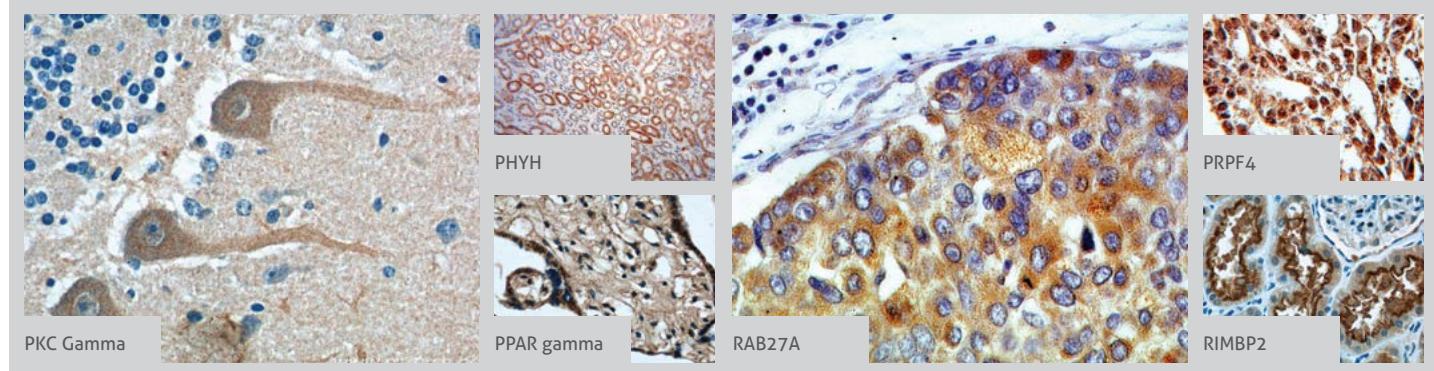
Antibody Name	Cat No.	Type	Applications
Nicastrin	14071-1-AP	Rabbit poly	ELISA, WB, IF
NINJ2	14085-1-AP	Rabbit poly	ELISA, WB
NKX2-2	13013-1-AP	Rabbit poly	ELISA, WB, IF
NKX2-5	13921-1-AP	Rabbit poly	ELISA, WB, IHC
NLGN4Y	13489-1-AP	Rabbit poly	ELISA, WB
NMDAR2A	19953-1-AP	Rabbit poly	ELISA, WB, IF
NMUR1	14619-1-AP	Rabbit poly	ELISA, WB, IHC
nNOS	18984-1-AP	Rabbit poly	ELISA, IHC
NO _L 3	10846-2-AP	Rabbit poly	ELISA, WB, IHC, IF
NOP56	18181-1-AP	Rabbit poly	ELISA, WB
NOTCH1	20687-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Notch1	10062-2-AP	Rabbit poly	ELISA, WB, IP
NOVA2	55002-1-AP	Rabbit poly	ELISA, WB
NPAS1	13701-1-AP	Rabbit poly	ELISA, WB, IHC
NPTX1	20656-1-AP	Rabbit poly	ELISA, WB, IF
NPTX2	10889-1-AP	Rabbit poly	ELISA, IHC, WB, IP
NR1H2	14278-1-AP	Rabbit poly	ELISA, WB
NR1H3	14351-1-AP	Rabbit poly	ELISA, WB
NR1H3	60134-1-IG	Mouse McAb	ELISA, WB, IF
NR2B	19954-1-AP	Rabbit poly	ELISA, WB, IF
NR2B	21920-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF
NR2E3	14246-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC
NRF1	12482-1-AP	Rabbit poly	ELISA, WB, IP

Antibody Name	Cat No.	Type	Applications
NRG1	10527-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
NRXN1	55051-1-AP	Rabbit poly	ELISA, WB
NSE	10149-1-AP	Rabbit poly	ELISA, WB, IHC, IP
NSE	55235-1-AP	Rabbit poly	ELISA, WB, IHC
NSE	66150-1-IG	Mouse McAb	ELISA, WB, IHC
NTF3	18084-1-AP	Rabbit poly	ELISA, WB, IHC, IF
NTM	14373-1-AP	Rabbit poly	ELISA, WB
NUDC	10681-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
NUMB	18701-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC
NUMB	11876-1-AP	Rabbit poly	ELISA, WB
NUMB	55321-1-AP	Rabbit poly	ELISA, WB
NUMB	60137-1-IG	Mouse McAb	ELISA, WB, IF
Nurr1/NR4A2	10975-2-AP	Rabbit poly	ELISA, IHC
NUS1	15986-1-AP	Rabbit poly	ELISA, WB
NXPH1	13809-1-AP	Rabbit poly	ELISA
OCRL	17695-1-AP	Rabbit poly	ELISA, WB, IP
OCT4	11263-1-AP	Rabbit poly	ELISA, IHC, IF, WB
OCT4	60242-1-IG	Mouse McAb	ELISA, WB, IHC
Oct6-Specific	18997-1-AP	Rabbit poly	ELISA, WB
OGFR	11177-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF
OLFM1	10079-1-AP	Rabbit poly	ELISA, IHC
OLFM3	12596-1-AP	Rabbit poly	ELISA, WB, IF, IHC
OLIG2	13999-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP

Oligophrenin 1
→ PHKG1

Antibody Name	Cat No.	Type	Applications
Oligophrenin 1	11076-1-AP	Rabbit poly	ELISA, WB, IP
Oligophrenin 1	17445-1-AP	Rabbit poly	ELISA, WB, IHC
OPA3	15638-1-AP	Rabbit poly	ELISA, IHC, WB, IP
OPRL1	12970-1-AP	Rabbit poly	ELISA, WB, IHC, IP
OPTN	5 10837-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
OPTN	60293-1-IG	Mouse McAb	ELISA, WB
OSCP1	12598-1-AP	Rabbit poly	ELISA, WB
OTOP1	24456-1-AP	Rabbit poly	ELISA, WB
OTOP3	18819-1-AP	Rabbit poly	ELISA, WB
Oxytocin Receptor	23045-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IP
p150 glued	55182-1-AP	Rabbit poly	ELISA, WB, IHC
P2RX4	13534-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC, IP
P2RX5	19012-1-AP	Rabbit poly	ELISA, WB, FC
P2RX7	11144-1-AP	Rabbit poly	ELISA, IHC, IF, FC
P2RY13	20335-1-AP	Rabbit poly	ELISA, WB, IHC
p35	18346-1-AP	Rabbit poly	ELISA, WB, IP
P53	37 10442-1-AP	Rabbit poly	ELISA, IHC, IP, WB, IF
P53	60283-1-IG	Mouse McAb	ELISA, WB
P62/SQSTM1	17 18420-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF, FC
P62/SQSTM1	66184-1-IG	Mouse McAb	ELISA, WB
P62/SQSTM1	55274-1-AP	Rabbit poly	ELISA, WB, IHC, IF
p70S6K	14485-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP, FC
p75NTR	55014-1-AP	Rabbit poly	ELISA, WB, IHC, IP, FC, IF
PABPC1,PABP	10970-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC, IP
PACSin1	13219-1-AP	Rabbit poly	ELISA, WB, IF
PACSin2	10518-2-AP	Rabbit poly	ELISA, IHC, WB, IP
PACSin3	10639-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IF
PAFAH1B3	10634-1-AP	Rabbit poly	ELISA
PAFAH1B3	20564-1-AP	Rabbit poly	ELISA, WB, IHC
PAK1	21401-1-AP	Rabbit poly	ELISA, WB, IHC, IF

Antibody Name	Cat No.	Type	Applications
PAK1	51137-1-AP	Rabbit poly	ELISA, WB, IHC, IF
PAK6	13539-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
Palladin	31 10853-1-AP	Rabbit poly	ELISA, WB, IP, IHC, FC, IF
Palladin-Specific	16179-1-AP	Rabbit poly	ELISA, WB, IP
PARD3	4 11085-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IP
PARK7,DJ-1	11681-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF
PAX3	21386-1-AP	Rabbit poly	ELISA, WB, IP
PAX3	51036-2-AP	Rabbit poly	ELISA, WB
PAX6	6 12323-1-AP	Rabbit poly	ELISA, IHC, WB
PAX7	20570-1-AP	Rabbit poly	ELISA, WB, IP
P-cadherin	13773-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
PDCL	16057-1-AP	Rabbit poly	ELISA, WB, IHC
PDE6A	21200-1-AP	Rabbit poly	ELISA, WB, IF, IHC
PDE6B	10353-1-AP	Rabbit poly	ELISA
PDE6B	22063-1-AP	Rabbit poly	ELISA, WB
PDE6C	55183-1-AP	Rabbit poly	ELISA, WB
PDLIM1/CLP36	11674-1-AP	Rabbit poly	ELISA, IHC, IF, WB, FC, IP
PDLIM3	13199-2-AP	Rabbit poly	ELISA, WB
PDLIM5	10530-1-AP	Rabbit poly	ELISA, WB, IHC, IP
PER1	13463-1-AP	Rabbit poly	ELISA, WB, IF
PER2	20359-1-AP	Rabbit poly	ELISA, WB, IP
PER3	12550-1-AP	Rabbit poly	ELISA, WB, IHC
Peripherin	17399-1-AP	Rabbit poly	ELISA, WB, IHC
persephin-Specific	19713-1-AP	Rabbit poly	ELISA, WB, IHC
PEX7	20614-1-AP	Rabbit poly	ELISA, WB
PFN2	60094-2-IG	Mouse McAb	ELISA, WB, IHC
PHACTR1	23446-1-AP	Rabbit poly	ELISA, WB
PHACTR4	31 13408-1-AP	Rabbit poly	ELISA, WB, IF
PHF5A	15554-1-AP	Rabbit poly	ELISA, WB, IP
PHGDH	14719-1-AP	Rabbit poly	ELISA, WB, IHC, IP
PHKG1	16743-1-AP	Rabbit poly	ELISA, WB

PHKG2
→ **PRKG1**


Antibody Name	Cat No.	Type	Applications
PHKG2	15109-1-AP	Rabbit poly	ELISA, WB, IHC, IF
phospho(403/404)-TDP43	66079-1-IG	Mouse McAb	ELISA, WB
phospho(409/410)-TDP43	22309-1-AP	Rabbit poly	ELISA, WB
Phospholemmann/FXYD1	6 13721-1-AP	Rabbit poly	ELISA, WB, IHC, IP
PHOX2A	25804-1-AP	Rabbit poly	ELISA, WB, IF
PHOX2B	25276-1-AP	Rabbit poly	ELISA, WB, IF, IHC
PHYH	12858-1-AP	Rabbit poly	ELISA, WB, IHC
PHYHIP	16984-1-AP	Rabbit poly	ELISA, WB
PHYHIPL	16937-1-AP	Rabbit poly	ELISA, WB
PIAS3	13486-1-AP	Rabbit poly	ELISA, WB
PICK1	10983-2-AP	Rabbit poly	ELISA, IHC, WB, IP, IF
PIGF	10642-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Pikachurin	14578-1-AP	Rabbit poly	ELISA, WB, IF
Pinin	18266-1-AP	Rabbit poly	ELISA, IHC, IF, WB, IP
PKC gamma	14364-1-AP	Rabbit poly	ELISA, WB, FC, IP, IHC
Placental lactogen	10178-1-AP	Rabbit poly	ELISA, WB
Placental lactogen	16326-1-AP	Rabbit poly	ELISA, WB, IHC
Placental lactogen	55236-1-AP	Rabbit poly	ELISA, WB, IHC
Plasmolipin	14868-1-AP	Rabbit poly	ELISA, WB
PLDN	9 10891-2-AP	Rabbit poly	ELISA, WB, IHC, IP
Plexin B2	10602-1-AP	Rabbit poly	ELISA, IF, WB, IP
PLP2	21482-1-AP	Rabbit poly	ELISA, WB, IHC
PLRG1	11914-1-AP	Rabbit poly	ELISA, WB, IP

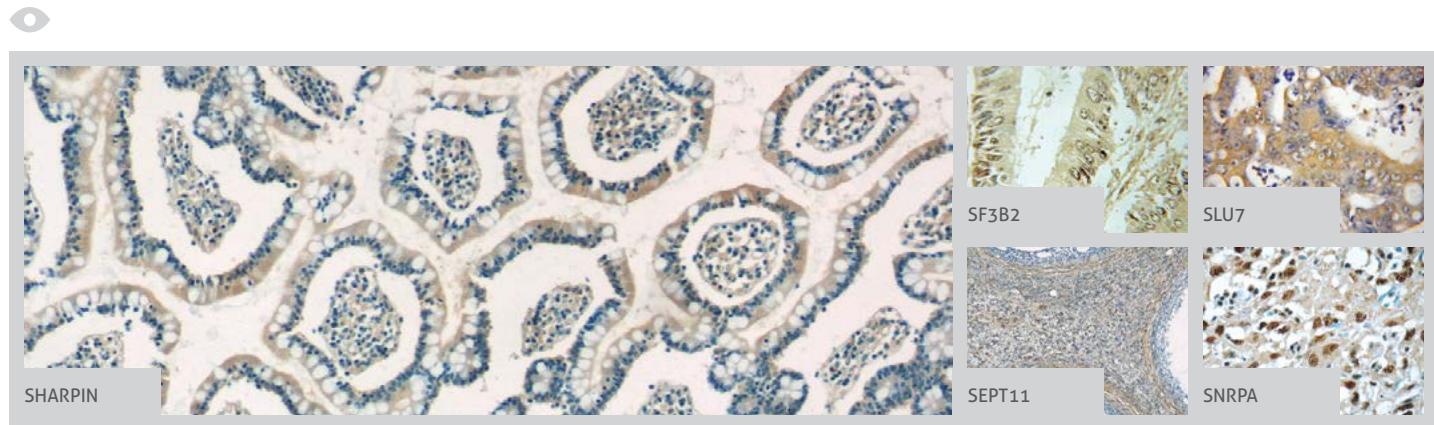
Antibody Name	Cat No.	Type	Applications
PNCK	13712-1-AP	Rabbit poly	ELISA, WB, IHC
PNMA1	13631-1-AP	Rabbit poly	ELISA, WB, IHC
PNPLA6	14261-1-AP	Rabbit poly	ELISA, WB, IF, IP
POU3F3-Specific	18999-1-AP	Rabbit poly	ELISA, WB, IHC
PPAR gamma	10 16643-1-AP	Rabbit poly	ELISA, WB, IF, IHC, IP
PPAR gamma	22061-1-AP	Rabbit poly	ELISA, WB, IF, IHC
PPAR gamma	60127-1-IG	Mouse McAb	ELISA, WB, IHC
PPARA	7 15540-1-AP	Rabbit poly	ELISA, WB, IHC
PPIH	11651-1-AP	Rabbit poly	ELISA, WB, IHC, IF
PPIL1	15144-1-AP	Rabbit poly	ELISA, WB, IHC, IP
PPIL3	15671-1-AP	Rabbit poly	ELISA, IHC
PPP1R8	16115-1-AP	Rabbit poly	ELISA, WB, IHC
PPP1R9A	18801-1-AP	Rabbit poly	ELISA, WB, IF
PPP1R9B	55129-1-AP	Rabbit poly	ELISA, WB, IHC, IP
PPP2CA	13482-1-AP	Rabbit poly	ELISA, WB, IHC, IP
PPP2R2B	13123-1-AP	Rabbit poly	ELISA, WB, IF, IP
PPT1	10887-1-AP	Rabbit poly	ELISA, IHC
PPWD1	17106-1-AP	Rabbit poly	ELISA, WB
PPYR1	21654-1-AP	Rabbit poly	ELISA, IHC
Pre-IL18	10663-1-AP	Rabbit poly	ELISA, WB, IP, IHC, IF
Pre-IL18	60070-1-IG	Mouse McAb	ELISA, IF, WB
Presenilin-1-Specific	16163-1-AP	Rabbit poly	ELISA, WB, IP
PRKG1	21646-1-AP	Rabbit poly	ELISA, WB, IP

PRKG2
→ **RIMBP2**

Antibody Name	Cat No.	Type	Applications
PRKG2	55138-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
Proenkephalin-A	13531-1-AP	Rabbit poly	ELISA, WB
Profilin 1	11680-1-AP	Rabbit poly	ELISA, WB, IHC
PROK2	24906-1-AP	Rabbit poly	ELISA, IHC
ProSAPiP1	24936-1-AP	Rabbit poly	ELISA, WB
PROX1	11067-2-AP	Rabbit poly	ELISA, WB, IHC, IF, FC
PROX1	19554-1-AP	Rabbit poly	ELISA, WB
PrP	12555-1-AP	Rabbit poly	ELISA, WB, IHC, IP
PRPF19	15414-1-AP	Rabbit poly	ELISA, WB
PRPF3	10106-1-AP	Rabbit poly	ELISA, WB, IP
PRPF38A	24946-1-AP	Rabbit poly	ELISA, WB
PRPF4	10728-1-AP	Rabbit poly	ELISA, WB, IHC
PRPF40A	17392-1-AP	Rabbit poly	ELISA, WB
PRPF40B	16929-1-AP	Rabbit poly	ELISA, WB, IF
PRPF8	11171-1-AP	Rabbit poly	ELISA, WB, IP
PRPH2	18109-1-AP	Rabbit poly	ELISA, WB, IF
PSD95-Specific, DLG4	20665-1-AP	Rabbit poly	ELISA, IHC, WB, IP
PSMC1	11196-1-AP	Rabbit poly	ELISA, WB
PTBP2	55186-1-AP	Rabbit poly	ELISA, WB
PTCH1	17520-1-AP	Rabbit poly	ELISA, WB, IHC
PTEN	60300-1-IG	Mouse McAb	ELISA, WB, IF, IHC
PTGDS	10754-2-AP	Rabbit poly	ELISA, WB, IHC
PTN	10821-1-AP	Rabbit poly	ELISA, WB, IHC
PTP1B	11334-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
PTPN5	14515-1-AP	Rabbit poly	ELISA, WB
PTPRJ	55123-1-AP	Rabbit poly	ELISA, WB
PTPRS	13008-1-AP	Rabbit poly	ELISA, WB, IHC, IP, FC
Pyruvate Carboxylase	16588-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
QKI	13169-1-AP	Rabbit poly	ELISA, WB, IP
RAB27A	17817-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
RAB27A	66058-1-IG	Mouse McAb	ELISA, WB, IHC

Antibody Name	Cat No.	Type	Applications
RAB27A-specific	16868-1-AP	Rabbit poly	ELISA, WB, IHC
RAB3IL1	17827-1-AP	Rabbit poly	ELISA, WB, IF
RAB3IP	12321-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
RAB4A	10347-1-AP	Rabbit poly	ELISA, WB
RAB5A	11947-1-AP	Rabbit poly	ELISA, IHC, WB, IP
RAB5A-Specific	20228-1-AP	Rabbit poly	ELISA, WB, IHC, IP
RABAC1	10542-1-AP	Rabbit poly	ELISA, IHC, WB
RAI1	17084-1-AP	Rabbit poly	ELISA, WB
RAPGEF5	12556-1-AP	Rabbit poly	ELISA, WB
RAPSN	20453-1-AP	Rabbit poly	ELISA, WB
RASGRP2	19745-1-AP	Rabbit poly	ELISA, WB
RBM17	13918-1-AP	Rabbit poly	ELISA, WB, IF
RBM17	15374-1-AP	Rabbit poly	ELISA, WB
RBM22	22103-1-AP	Rabbit poly	ELISA, WB
RBM28	16484-1-AP	Rabbit poly	ELISA, WB
RBM8A,Y14	14958-1-AP	Rabbit poly	ELISA, WB, IHC, IP
RBP3	14352-1-AP	Rabbit poly	ELISA, IHC, IP, WB
RCAN1	14869-1-AP	Rabbit poly	ELISA, WB, IHC, IP
RCAN2	12900-1-AP	Rabbit poly	ELISA, WB, IHC
RDH10	14644-1-AP	Rabbit poly	ELISA, WB, IHC, IP
RDH12	13289-3-AP	Rabbit poly	ELISA, WB
Recoverin	10073-1-AP	Rabbit poly	ELISA, WB, IF
REPS2	20699-1-AP	Rabbit poly	ELISA, WB, IF
RFC2	10410-1-AP	Rabbit poly	ELISA, WB
RGMA	12387-1-AP	Rabbit poly	ELISA, WB, IP
RGR	11904-1-AP	Rabbit poly	ELISA, WB, IHC
RGS9	17970-1-AP	Rabbit poly	ELISA, WB
RHEB	15924-1-AP	Rabbit poly	ELISA, WB, IHC
RIM1	24576-1-AP	Rabbit poly	ELISA, WB
RIM2-Specific	20093-1-AP	Rabbit poly	ELISA, WB
RIMBP2	15716-1-AP	Rabbit poly	ELISA, WB, IHC

RIMS3
→ SEMA4A



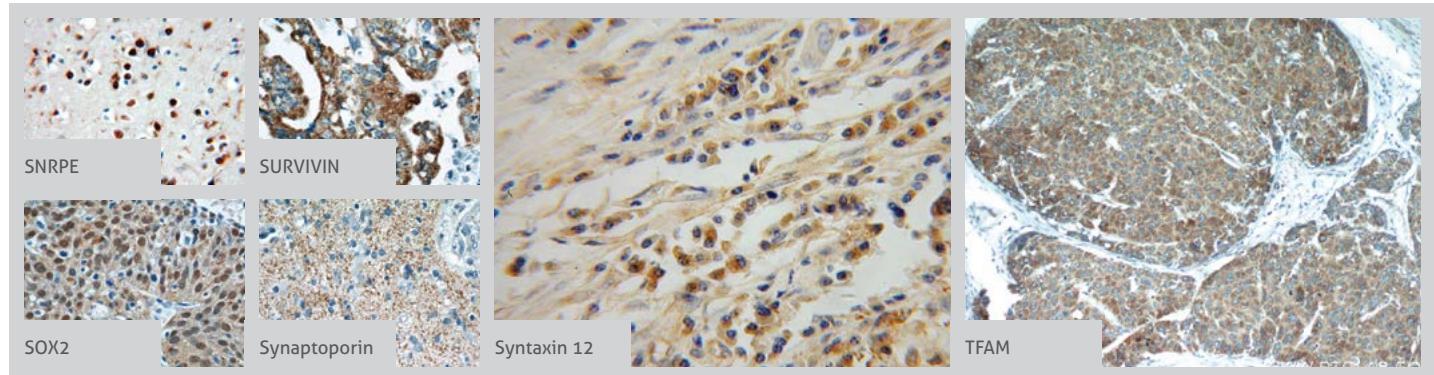
Antibody Name	Cat No.	Type	Applications	Antibody Name	Cat No.	Type	Applications
RIMS3	15088-1-AP	Rabbit poly	ELISA, WB	RTN4/NOGO	10740-1-AP	Rabbit poly	ELISA, WB, IHC, FC
RIMS4-Specific	20091-1-AP	Rabbit poly	ELISA, WB	RTN4/NOGO	10950-1-AP	Rabbit poly	ELISA, WB, IHC, IF
RIN1	16388-1-AP	Rabbit poly	ELISA, WB	RUNX1	19555-1-AP	Rabbit poly	ELISA, WB, IP
RKIP	10575-1-AP	Rabbit poly	ELISA, IHC, WB	RUNX1	25315-1-AP	Rabbit poly	ELISA, WB, IF
RLBP1	15356-1-AP	Rabbit poly	ELISA, WB, IHC	Ryanodine Receptor 2	19765-1-AP	Rabbit poly	ELISA, WB, IHC
RNF2	16031-1-AP	Rabbit poly	ELISA, WB, IP	S100B	15146-1-AP	Rabbit poly	ELISA, WB, IHC, IF
ROBO1-Specific	20219-1-AP	Rabbit poly	ELISA, WB	S1PR5/EDG8	13874-1-AP	Rabbit poly	ELISA, WB
ROBO3	11982-1-AP	Rabbit poly	ELISA, WB, IHC	SAG	23546-1-AP	Rabbit poly	ELISA, WB
ROBO3-Specific	20220-1-AP	Rabbit poly	ELISA, WB, IHC	Sam68	10222-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC, IP
ROM1	21984-1-AP	Rabbit poly	ELISA, WB, IF	SAMD4A	17387-1-AP	Rabbit poly	ELISA, WB, IHC, IP
RORA	10616-1-AP	Rabbit poly	ELISA, WB	SAP18	13841-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
RORB	17635-1-AP	Rabbit poly	ELISA, WB, IHC, IP	SART1	22675-1-AP	Rabbit poly	ELISA, WB, IF
RORC	13205-1-AP	Rabbit poly	ELISA, WB	SCGN	14919-1-AP	Rabbit poly	ELISA, WB
RP2	14151-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IP	SCN9A/Nav1.7-Specific	20257-1-AP	Rabbit poly	ELISA, WB, IF, IHC
RPE65	17939-1-AP	Rabbit poly	ELISA, WB	SCNN1A	4 10924-2-AP	Rabbit poly	ELISA, WB, IHC
RPGR	16891-1-AP	Rabbit poly	ELISA, WB, IF, IHC	SCNN1G	13943-1-AP	Rabbit poly	ELISA, WB, IHC
RPGRIP1	13214-1-AP	Rabbit poly	ELISA, WB	SCUBE3	16773-1-AP	Rabbit poly	ELISA, WB, IHC
RPGRIP1L	55160-1-AP	Rabbit poly	ELISA, WB, IHC, IP	SEC6	14703-1-AP	Rabbit poly	ELISA, WB, IHC, IF
RPH3A	11396-1-AP	Rabbit poly	ELISA, WB, IF	Sec8	11913-1-AP	Rabbit poly	ELISA, WB, IHC, IP
RPH3AL	15297-1-AP	Rabbit poly	ELISA, WB, IP	Secretogranin V	10761-1-AP	Rabbit poly	ELISA, WB, IHC
RRAS2	12530-1-AP	Rabbit poly	ELISA, WB, IHC, IF	SEMA3C	19242-1-AP	Rabbit poly	ELISA, WB
RSPO2	17781-1-AP	Rabbit poly	ELISA, WB, IP	SEMA3D	13029-1-AP	Rabbit poly	ELISA
RSPO3	17193-1-AP	Rabbit poly	ELISA, WB, IP, IHC	SEMA4A	12288-2-AP	Rabbit poly	ELISA, WB

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SEMA4F
→ **SNRPB2**

Antibody Name	Cat No.	Type	Applications
SEMA4F	12474-1-AP	Rabbit poly	ELISA, WB, IP
SEPT11	14672-1-AP	Rabbit poly	ELISA, WB, IF, IP, IHC
SERPINE2	11303-1-AP	Rabbit poly	ELISA, IHC, WB, IP
SET	55201-1-AP	Rabbit poly	ELISA, WB, IHC
SF3A1	15858-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
SF3A2	15596-1-AP	Rabbit poly	ELISA, WB, IHC
SF3A3	12070-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
SF3B2	10919-1-AP	Rabbit poly	ELISA, WB, IHC, IF
SF3B3	14577-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
SF3B4	10482-1-AP	Rabbit poly	ELISA, WB, IHC, IP
SF3B5	15525-1-AP	Rabbit poly	ELISA, WB, IF
SF4	15614-1-AP	Rabbit poly	ELISA, WB, IHC, IF
SFPQ	15585-1-AP	Rabbit poly	ELISA, WB, IHC
SFRS17A	13441-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
SH3GL2	12435-1-AP	Rabbit poly	ELISA, IHC, IP, WB
SH3GL3	13849-1-AP	Rabbit poly	ELISA, WB
SHANK1	55059-1-AP	Rabbit poly	ELISA, WB
SHARPIN	14626-1-AP	Rabbit poly	ELISA, WB, IP, IHC
SHC3	12436-1-AP	Rabbit poly	ELISA, WB, IHC, IP
SHC4	12641-1-AP	Rabbit poly	ELISA, WB
SIAH1	13886-1-AP	Rabbit poly	ELISA, WB
SIGLEC7	13939-1-AP	Rabbit poly	ELISA, WB, IHC
SIP1	21672-1-AP	Rabbit poly	ELISA, WB
SIRP alpha	14482-1-AP	Rabbit poly	ELISA, WB
SIRP BETA 1	11811-1-AP	Rabbit poly	ELISA, IHC, WB
SIRT1	13161-1-AP	Rabbit poly	ELISA, IP, IHC, WB
SIRT1	60303-1-IG	Mouse McAb	ELISA, WB, IHC, IP
SKIV2L2	12719-2-AP	Rabbit poly	ELISA, WB, IP
SLC18A1	20340-1-AP	Rabbit poly	ELISA, WB, IHC
SLC1A4	13067-2-AP	Rabbit poly	ELISA, IP, WB
SLC24A6	21430-1-AP	Rabbit poly	ELISA, WB

Antibody Name	Cat No.	Type	Applications
SLC45A2	10453-1-AP	Rabbit poly	ELISA, WB, IP
SLC6A8	20299-1-AP	Rabbit poly	ELISA, WB
SLC7A5	13752-1-AP	Rabbit poly	ELISA, WB, IHC
SLIT2-Specific	20217-1-AP	Rabbit poly	ELISA, IHC, WB
SLITRK4	13835-1-AP	Rabbit poly	ELISA, WB
SLMAP	25220-1-AP	Rabbit poly	ELISA, WB
SLU7	12050-1-AP	Rabbit poly	ELISA, WB, IHC
SMN	11708-1-AP	Rabbit poly	ELISA, IHC, IF, IP, WB
SMN	20451-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
SMN	22329-1-AP	Rabbit poly	ELISA, WB, IF
SMN (Human,Mouse,Rat)	60154-2-IG	Mouse McAb	ELISA, WB
SMN (human-Specific)	60154-1-IG	Mouse McAb	ELISA, WB, IHC, IP
SMNDC1	12178-1-AP	Rabbit poly	ELISA, WB, IHC
SMN-Exon7	60255-1-IG	Mouse McAb	ELISA, WB
smooth muscle actin specific	55135-1-AP	Rabbit poly	ELISA, IHC, WB
SNAI2	12129-1-AP	Rabbit poly	ELISA, WB, IHC
SNAP23	10825-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC, IP
SNAP25	10007-1-AP	Rabbit poly	ELISA, WB
SNAP25	14903-1-AP	Rabbit poly	ELISA, WB, IP, IF
SNAP25	60159-1-IG	Mouse McAb	ELISA, WB, IF, IP
SNAP29	12704-1-AP	Rabbit poly	ELISA, WB, IHC, IP
SNAPIN	10055-1-AP	Rabbit poly	ELISA, IF, WB, IHC, FC, IP
SNCB	10498-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC
SNIP1	14950-1-AP	Rabbit poly	ELISA, WB
SNRNP200	23875-1-AP	Rabbit poly	ELISA, WB
SNRNP48	24297-1-AP	Rabbit poly	ELISA, WB, IHC
SNRPA	10212-1-AP	Rabbit poly	ELISA, WB, IHC
SNRPA1	17368-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
SNRPB	16807-1-AP	Rabbit poly	ELISA, WB, IHC
SNRPB2	13512-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP

SNRPD1
→ **STMN3**


Antibody Name	Cat No.	Type	Applications	Antibody Name	Cat No.	Type	Applications
SNRPD1	10352-1-AP	Rabbit poly	ELISA, WB	SPATA7	12020-1-AP	Rabbit poly	ELISA, WB, IP, IHC
SNRPD2	14789-1-AP	Rabbit poly	ELISA, WB, IHC	SPOCK1	12512-1-AP	Rabbit poly	ELISA, WB, IHC
SNRPD2	66111-1-IG	Mouse McAb	ELISA, WB	SPOCK2	11725-1-AP	Rabbit poly	ELISA, WB
SNRPD3	10379-1-AP	Rabbit poly	ELISA, WB, IHC	SPR	16822-1-AP	Rabbit poly	ELISA, WB, IF, IP
SNRPE	20407-1-AP	Rabbit poly	ELISA, IHC, WB	SPRY2	11383-1-AP	Rabbit poly	ELISA, WB, IHC, IF
SNRPF	14977-1-AP	Rabbit poly	ELISA, WB, IHC, FC	SPTBN2	55107-1-AP	Rabbit poly	ELISA, WB
SNRPG	15084-1-AP	Rabbit poly	ELISA, WB, IHC	SR-BI	21277-1-AP	Rabbit poly	ELISA, WB, IF
SNRPN	11070-1-AP	Rabbit poly	ELISA, WB, IHC, IF	SREBF1	14088-1-AP	Rabbit poly	ELISA, WB, IP
SOD1	9 10269-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF	SRGAP1	13252-1-AP	Rabbit poly	ELISA, WB, IHC, IP
SOD2	24127-1-AP	Rabbit poly	ELISA, WB, IF, IHC, IP	SRGAP3	12823-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Somatostatin-Specific	17512-1-AP	Rabbit poly	ELISA, WB, IHC	SRGAP3-Specific	20224-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
SORCS1	18839-1-AP	Rabbit poly	ELISA, WB	SRI	16471-1-AP	Rabbit poly	ELISA, IHC, IP, WB, IF
SORCS1	23002-1-AP	Rabbit poly	ELISA, WB, IHC	SRPX2	11845-1-AP	Rabbit poly	ELISA, WB, IHC
Sortilin	12369-1-AP	Rabbit poly	ELISA, WB, IHC, IP	SRR	17955-1-AP	Rabbit poly	ELISA, IHC, WB
SOX10	10422-1-AP	Rabbit poly	ELISA, WB	SRRM1	12822-1-AP	Rabbit poly	ELISA, WB
SOX12	23939-1-AP	Rabbit poly	ELISA, WB	SSBP1	12212-1-AP	Rabbit poly	ELISA, WB
SOX13	18902-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP	STAC	11480-1-AP	Rabbit poly	ELISA, WB
SOX2	5 11064-1-AP	Rabbit poly	ELISA, IF, WB, IHC	STAU1	14225-1-AP	Rabbit poly	ELISA, WB, IP
SOX2	20118-1-AP	Rabbit poly	ELISA, WB	STBD1	11842-1-AP	Rabbit poly	ELISA, WB, IP
SOX6	14010-1-AP	Rabbit poly	ELISA, WB	STIM1	11565-1-AP	Rabbit poly	ELISA, WB, IP, IHC, IF, FC
SOX8	20627-1-AP	Rabbit poly	ELISA, WB, IHC	STIM1	66189-1-IG	Mouse McAb	ELISA, WB, IF
SPARCL1	13517-1-AP	Rabbit poly	ELISA, WB, IHC, IP	STMN2	6 10586-1-AP	Rabbit poly	ELISA, IHC, IP, WB, IF
SPATA13	21400-1-AP	Rabbit poly	ELISA, WB, IF	STMN3	11311-1-AP	Rabbit poly	ELISA, IHC, IP, WB

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STMN3
→ TFAM

Antibody Name	Cat No.	Type	Applications	Antibody Name	Cat No.	Type	Applications
STMN3	66152-1-IG	Mouse McAb	ELISA, WB	SYNCRIP	14024-1-AP	Rabbit poly	ELISA, WB, IP
STRAP	18277-1-AP	Rabbit poly	ELISA, WB, IHC, IP	SYNGAP1	19739-1-AP	Rabbit poly	ELISA, WB, IF
STUB1	55430-1-AP	Rabbit poly	ELISA, WB, IHC	SYNJ1	24677-1-AP	Rabbit poly	ELISA, WB
STXBP1	11459-1-AP	Rabbit poly	ELISA, WB, IHC	Syntaphilin	13646-1-AP	Rabbit poly	ELISA, WB
STXBP1	20562-1-AP	Rabbit poly	ELISA, WB, IHC	Syntaxin 12	14259-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC
STXBP2	15312-1-AP	Rabbit poly	ELISA, IHC, WB	Syntaxin 17	17815-1-AP	Rabbit poly	ELISA, IHC, WB, IP
STXBP3	13764-1-AP	Rabbit poly	ELISA, WB, IHC, IP	Syntaxin 18	16013-1-AP	Rabbit poly	ELISA, WB, IHC
STXBP4	14231-1-AP	Rabbit poly	ELISA, WB, IHC, IF	Syntaxin 2	55033-1-AP	Rabbit poly	ELISA, WB
STXBP5	24512-1-AP	Rabbit poly	ELISA, WB, IP, IF	Syntaxin 3	15556-1-AP	Rabbit poly	ELISA, WB
SURVIVIN	8 10508-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP	Syntaxin 4	14988-1-AP	Rabbit poly	ELISA, WB, IP
SURVIVIN-Specific	19119-1-AP	Rabbit poly	ELISA, IHC, IF	Syntaxin 8	12206-1-AP	Rabbit poly	ELISA, IF, WB, FC
SV2B	14624-1-AP	Rabbit poly	ELISA, WB, IHC, IP	Syntenin-1	22399-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IP
SV2C	21271-1-AP	Rabbit poly	ELISA, WB, IP	TAC1	13839-1-AP	Rabbit poly	ELISA, IHC, WB
SYAP1	16272-1-AP	Rabbit poly	ELISA, WB, IHC, IF	TACR2	25270-1-AP	Rabbit poly	ELISA, WB
SYF2	16958-1-AP	Rabbit poly	ELISA, WB	TACR3	22334-1-AP	Rabbit poly	ELISA, IHC
SYN1-Specific	20258-1-AP	Rabbit poly	ELISA, WB, IP	TAF15	24235-1-AP	Rabbit poly	ELISA, WB, IHC
SYN2	16573-1-AP	Rabbit poly	ELISA, WB	TAGLN3	12246-1-AP	Rabbit poly	ELISA, WB
Synaptogyrin 1	10432-1-AP	Rabbit poly	ELISA, WB	TAU	10274-1-AP	Rabbit poly	ELISA, WB, IHC
Synaptogyrin-4	21751-1-AP	Rabbit poly	ELISA, WB	TBCB	15782-1-AP	Rabbit poly	ELISA, WB, IF, IP
Synaptophysin	17785-1-AP	Rabbit poly	ELISA, WB, IHC, IP, IF	TBP	22006-1-AP	Rabbit poly	ELISA, WB, IP
Synaptophysin	60191-1-IG	Mouse McAb	ELISA, WB, IF	TBP	66166-1-IG	Mouse McAb	ELISA, WB, IP, IHC
Synaptopodin	21064-1-AP	Rabbit poly	ELISA, WB, IF, IHC	TBP	22246-1-AP	Rabbit poly	ELISA, WB, IF
Synaptoporin	8 14143-1-AP	Rabbit poly	ELISA, WB, IHC	TBR1	6 20932-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Synaptotagmin-1	14511-1-AP	Rabbit poly	ELISA, WB, IHC, IP	TCERG1	21858-1-AP	Rabbit poly	ELISA, WB, IHC
Synaptotagmin-11	12031-1-AP	Rabbit poly	ELISA, WB	TCOF1	11003-1-AP	Rabbit poly	ELISA, WB, IHC, IF
Synaptotagmin-12	55015-1-AP	Rabbit poly	ELISA, WB	TDP1	10641-1-AP	Rabbit poly	ELISA, WB, IP
Synaptotagmin-3	12726-1-AP	Rabbit poly	ELISA, WB	TDP-43	660 10782-2-AP	Rabbit poly	ELISA, IF, WB, IHC, IP, FC
Synaptotagmin-4	12642-1-AP	Rabbit poly	ELISA, WB, IHC	TDP-43	44 12892-1-AP	Rabbit poly	ELISA, IHC, IF, IP, WB
Synaptotagmin-4	20472-1-AP	Rabbit poly	ELISA, WB	TDP-43	31 60019-2-IG	Mouse McAb	ELISA, IF, IP, FC, WB, IHC
Synaptotagmin-9	12793-1-AP	Rabbit poly	ELISA, WB	TDP-43	18280-1-AP	Rabbit poly	ELISA, IHC, IP, WB
SYNC	25151-1-AP	Rabbit poly	ELISA, WB, IHC	TFAM	5 19998-1-AP	Rabbit poly	ELISA, WB, IHC

TFAM
→ **TWSG1**

Antibody Name	Cat No.	Type	Applications
TFAM	22586-1-AP	Rabbit poly	ELISA, WB, IHC, IP
TFAM	23996-1-AP	Rabbit poly	ELISA, WB, IHC
TFIP11	14436-1-AP	Rabbit poly	ELISA, WB
TFIP11	66114-1-IG	Mouse McAb	ELISA, WB, IHC
TGF-beta 1	14 18978-1-AP	Rabbit poly	ELISA, IHC
TGFB1 / BIGH3	21 10188-1-AP	Rabbit poly	ELISA, IP, IHC, WB
TGFB1 / BIGH3	60007-1-IG	Mouse McAb	ELISA, IHC, WB, IP
THRA	10139-1-AP	Rabbit poly	ELISA, WB
TIMM13	11973-1-AP	Rabbit poly	ELISA, WB, IF
TIMM8A	11179-1-AP	Rabbit poly	ELISA, WB, IP
TLR4	4 19811-1-AP	Rabbit poly	ELISA, WB, IHC
TMEM106B	20995-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
TMOD4	5 11753-1-AP	Rabbit poly	ELISA, IHC, WB, IP
TNF alpha	4 60291-1-IG	Mouse McAb	ELISA, WB, IHC, IF
TNF-alpha	17590-1-AP	Rabbit poly	ELISA, IHC
TNFR2	19272-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC, IP
TNNC1	13504-1-AP	Rabbit poly	ELISA, WB, IHC
TNNI1	16102-1-AP	Rabbit poly	ELISA, WB, IHC
TNNI1	22253-1-AP	Rabbit poly	ELISA, WB, IHC
TNNI2	11634-1-AP	Rabbit poly	ELISA, WB, IHC
TNNI2	22130-1-AP	Rabbit poly	ELISA, WB, IHC
TNNT1	15893-1-AP	Rabbit poly	ELISA, WB
TNNT3	19729-1-AP	Rabbit poly	ELISA, WB, IHC
Torsin A	10296-1-AP	Rabbit poly	ELISA, IHC, WB
TP53	21891-1-AP	Rabbit poly	ELISA, IHC, IP, WB, IF
tPA	10147-1-AP	Rabbit poly	ELISA, WB, IHC, IP
TPH1	20879-1-AP	Rabbit poly	ELISA, WB
TPH2	22590-1-AP	Rabbit poly	ELISA, WB
TPM2	11038-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
TPM3	10737-1-AP	Rabbit poly	ELISA, WB, IHC, IP
TPM4	13741-1-AP	Rabbit poly	ELISA, WB, IHC, IP

Antibody Name	Cat No.	Type	Applications
TPP1	12479-1-AP	Rabbit poly	ELISA, WB, IHC
Transferrin receptor	4 10084-2-AP	Rabbit poly	ELISA, WB, IHC, IP
Transgelin 2	8 10234-2-AP	Rabbit poly	ELISA, WB, IHC, IF
Transgelin 2	60044-1-IG	Mouse McAb	ELISA, WB, IHC, IP
transgelin/SM22	16 10493-1-AP	Rabbit poly	ELISA, WB, IHC
transgelin/SM22	60213-1-IG	Mouse McAb	ELISA, WB, IHC
transgelin/SM22-specific	15502-1-AP	Rabbit poly	ELISA, WB, IHC
Transgelin-2-specific	15508-1-AP	Rabbit poly	ELISA, IHC, IF, IP, FC, WB
Transportin-1	20679-1-AP	Rabbit poly	ELISA, WB
TRAPP/C	12074-1-AP	Rabbit poly	ELISA, WB
TRIM67	24369-1-AP	Rabbit poly	ELISA, WB
TRIM9	10786-1-AP	Rabbit poly	ELISA, WB, IHC, IP
TrkB	13129-1-AP	Rabbit poly	ELISA, WB
TrkC	11999-1-AP	Rabbit poly	ELISA, WB
TRPA1	19124-1-AP	Rabbit poly	ELISA, WB
TRPC1	19482-1-AP	Rabbit poly	ELISA, WB
TRPC4	21349-1-AP	Rabbit poly	ELISA, WB, IHC
TRPC6	18236-1-AP	Rabbit poly	ELISA, IHC, WB
TSPAN6	12293-1-AP	Rabbit poly	ELISA, WB
TSPAN7	18695-1-AP	Rabbit poly	ELISA, WB, IHC, IP
TTBK2	15072-1-AP	Rabbit poly	ELISA, WB, IHC, IF
TTF2	13722-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP
TUB	17928-1-AP	Rabbit poly	ELISA, WB, IHC
TULP1	18971-1-AP	Rabbit poly	ELISA, WB, IHC, IF
TULP2	12668-1-AP	Rabbit poly	ELISA, WB
TULP3	13637-1-AP	Rabbit poly	ELISA, WB, IHC, IP
Twinkle	13435-1-AP	Rabbit poly	ELISA, WB, IHC
Twinkle	18793-1-AP	Rabbit poly	ELISA, WB, IHC
TWIST1	4 18125-1-AP	Rabbit poly	ELISA, WB
TWIST1-specific	25465-1-AP	Rabbit poly	ELISA, WB, IP
TWSG1	12327-1-AP	Rabbit poly	ELISA, IHC, WB

TXNL4B
→ β -ENaC

Antibody Name	Cat No.	Type	Applications
TXNL4B	12927-1-AP	Rabbit poly	ELISA, WB
U2AF35	4 10334-1-AP	Rabbit poly	ELISA, WB, IHC, IP
U2AF35	60289-1-IG	Mouse McAb	ELISA, WB, IHC, IP
U2AF65	15624-1-AP	Rabbit poly	ELISA, WB, IHC
UAP56	14798-1-AP	Rabbit poly	ELISA, WB, IHC, IP
UBC9	10070-1-AP	Rabbit poly	ELISA, WB, IHC
UBC9	10224-1-AP	Rabbit poly	ELISA, WB, IHC
UBC9	51018-2-AP	Rabbit poly	ELISA, WB, IHC, IP
UBC9	60201-1-IG	Mouse McAb	ELISA, WB
UBC9-Specific	14837-1-AP	Rabbit poly	ELISA, WB, IHC, IF, FC
UBE1	15912-1-AP	Rabbit poly	ELISA, WB, IHC
UBE2K	11834-3-AP	Rabbit poly	ELISA, WB, IHC
UBQLN2	23449-1-AP	Rabbit poly	ELISA, WB, IHC, IF
UCHL1/PGP9.5	14730-1-AP	Rabbit poly	ELISA, WB, IP
UCHL3	12384-1-AP	Rabbit poly	ELISA, WB, IHC, IP
UNC13A/Munc13-1	55053-1-AP	Rabbit poly	ELISA, WB
VAMP1	13115-1-AP	Rabbit poly	ELISA, WB, IF
VAMP2	10135-1-AP	Rabbit poly	ELISA, IHC, WB
VAMP3/Cellubrevin	10702-1-AP	Rabbit poly	ELISA, WB, IHC, IP
VAMP8	15546-1-AP	Rabbit poly	ELISA, WB
VANGL1	14696-1-AP	Rabbit poly	ELISA, WB
VAPB	4 14477-1-AP	Rabbit poly	ELISA, WB, IHC, IF, IP, FC
VAPB	66191-1-IG	Mouse McAb	ELISA, WB, IF, IHC
VCAM-1	5 11444-1-AP	Rabbit poly	ELISA, IHC
VCP	10736-1-AP	Rabbit poly	ELISA, WB, IP, IHC, IF
VCP	60316-1-IG	Mouse McAb	ELISA, WB, IHC, IF
VGAT	14471-1-AP	Rabbit poly	ELISA, WB
VGLUT1	55491-1-AP	Rabbit poly	ELISA, IHC, FC
VGLUT2	25261-1-AP	Rabbit poly	ELISA, WB
VILIP 3	10989-1-AP	Rabbit poly	ELISA, IHC, WB, IF, IP
VILIP-1	13919-1-AP	Rabbit poly	ELISA, WB, IP

Antibody Name	Cat No.	Type	Applications
Vimentin	27 10366-1-AP	Rabbit poly	ELISA, IF, IHC, WB, FC
Vimentin	22031-1-AP	Rabbit poly	ELISA, WB
VIPR1	14878-1-AP	Rabbit poly	ELISA, IHC
Visfatin	11776-1-AP	Rabbit poly	ELISA, IHC, WB, IP
VMAT2	20873-1-AP	Rabbit poly	ELISA, WB
VN1R4	18846-1-AP	Rabbit poly	ELISA, WB
VPS35	10236-1-AP	Rabbit poly	ELISA, WB, IF, IP
VTI1B	14495-1-AP	Rabbit poly	ELISA, WB, IHC, IP
WBP1	11042-1-AP	Rabbit poly	ELISA, WB, IHC
WBP2	12030-1-AP	Rabbit poly	ELISA, WB, IHC, IF
WDR1	13676-1-AP	Rabbit poly	ELISA, IHC, IP, WB
WFS1	9 11558-1-AP	Rabbit poly	ELISA, IHC, IP, WB
WNT3	17983-1-AP	Rabbit poly	ELISA, WB
WNT6	24201-1-AP	Rabbit poly	ELISA, WB, IHC
XAB2	10637-1-AP	Rabbit poly	ELISA, WB, IP
YWHAB	10936-1-AP	Rabbit poly	ELISA, IHC
YWHAZ	14881-1-AP	Rabbit poly	ELISA, WB
ZCRB1	25629-1-AP	Rabbit poly	ELISA, WB, IF
ZFYVE27	12680-1-AP	Rabbit poly	ELISA, WB, IP
Zinc-alpha-2-glycoprotein	13399-1-AP	Rabbit poly	ELISA, WB, IHC, IF
ZnT3	17363-1-AP	Rabbit poly	ELISA, WB, IHC
ZO-1	11 21773-1-AP	Rabbit poly	ELISA, WB, IHC, FC, IF, IP
β -ENaC	14134-1-AP	Rabbit poly	ELISA, WB

CONTACT US

NORTH AMERICAN OFFICE

Phone	1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
Fax	1 (312) 455-8408
Address	Proteintech Group, Inc. 2201 W. Campbell Park Dr. STE12, Chicago, IL 60612, USA
Email	proteintech@ptglab.com

EUROPEAN OFFICE

Phone	+44 (161) 2266144
Fax	+44 (161) 2321272
Address	Proteintech Europe, Ltd. Manchester Science Park, Kilburn House, Lloyd Street North, Manchester M15 6SE
Email	europe@ptglab.com

CHINESE OFFICE

Phone	027-87931629 or 027-87931627
Fax	027-87931627
Address	Wuhan Sanying Biotechnologies, a Branch of Proteintech Group, Inc.
Email	service@ptglab.com



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