For Research Use Only

APP Polyclonal antibody

Catalog Number:27320-1-AP 2 Publications

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Basic Information

Catalog Number:
27320-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG26299

GenBank Accession Number:
BC004369

GeneID (NCBI):
351

UNIPROT ID:
P05067

Full Name:
amyloid beta (A4) precursor protein

Calculated MW:
87 kDa

Observed MW:
100 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : fetal human brain tissue, HEK-293T cells, U-251 cells, mouse brain tissue, HeLa cells, rat brain tissue, MDA-MB-231 cells

IHC : mouse brain tissue, human gliomas tissue

Background Information

Aβ derives from APP via proteolytic cleavage by proteases called α-, β- and γ -secretase. The α-secretase cleavage precludes the formation of Aβ, while the β- and γ -cleavages generate APP components with amyloidogenic features. Amyloid beta A4 precursor protein(APP), encoded by APP gene which locate on human chromosome 21q, is a cell surface receptor and performs physiological functions on the surface of neurons relevant to neurite growth, neuronal adhesion and axonogenesis. APP expressed in all fetal tissues and is pronounced in brain, kidney, heart and spleen, but weak in liver. Defects in APP are the cause of Alzheimer disease type 1 (AD1). Amyloid β (Aβ) precursor protein (APP) is a 100-140 kDa transmembrane glycoprotein that exists as several isoforms. APP can be cleaved into several chains, this antibody could recognize N-terminal fragment of APP (N-APP).

Notable Publications

Author	Pubmed ID	Journal	Application
Yaqi Wang	35883144	Alzheimers Res Ther	WB
Seda Kose	37269967	Brain Res	IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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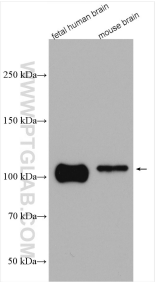
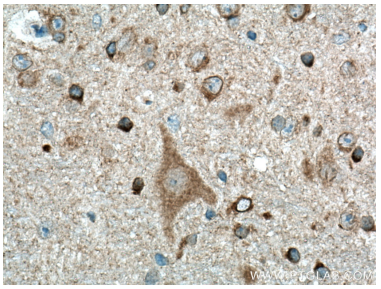
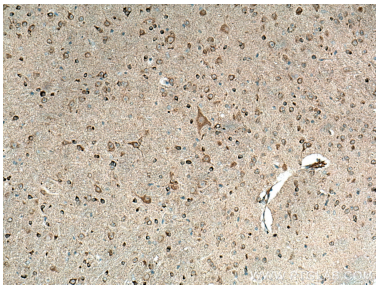
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27320-1-AP (beta Amyloid antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 27320-1-AP (beta Amyloid antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 27320-1-AP (beta Amyloid antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).