

For Research Use Only

CHRNA7 (48 kDa) Recombinant antibody

Catalog Number: 82848-3-RR

Featured Product



Basic Information

Catalog Number:

82848-3-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15980

GenBank Accession Number:

BC037571

GeneID (NCBI):

1139

UNIPROT ID:

P36544

Full Name:

cholinergic receptor, nicotinic, alpha 7

Calculated MW:

502 aa, 56 kDa

Observed MW:

~50 kDa

Purification Method:

Protein A purification

CloneNo.:

2A10

Recommended Dilutions:

WB 1:1000-1:5000

IHC 1:250-1:1000

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

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 : rat brain tissue, Jurkat cells

IHC : mouse brain tissue, rat dorsal root ganglion tissue

Background Information

Nicotinic acetylcholine receptors (nAChRs) are cholinergic receptors that form ligand-gated ion channels that mediate fast signal transmission at synapses. CHRNA7 (neuronal acetylcholine receptor subunit alpha-7) forms a homo-oligomeric channel, displays marked permeability to calcium ions and is a major component of brain nicotinic receptors that are blocked by, and highly sensitive to, alpha-bungarotoxin. CHRNA7, so that like CHRNA7, the epithelial CHRFA7A ORF encodes a protein (48 kDa) that differs from the CHRNA7 (58 kDa) by a distinct amino terminus and molecular weight.(PMID: 25473097)

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

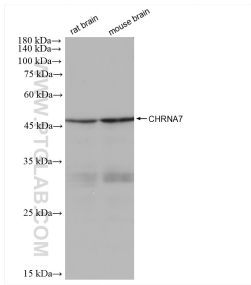
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

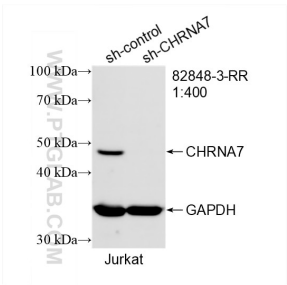
E: proteintech@ptglab.com
W: ptglab.com

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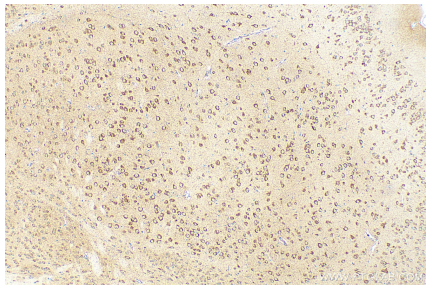
Selected Validation Data



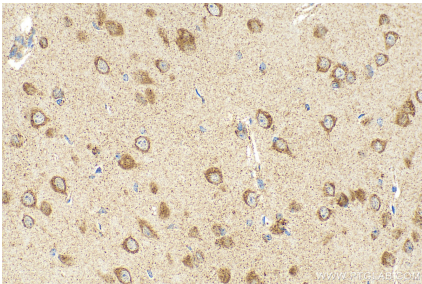
Various lysates were subjected to SDS PAGE followed by western blot with 82848-3-RR (CHRNA7 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



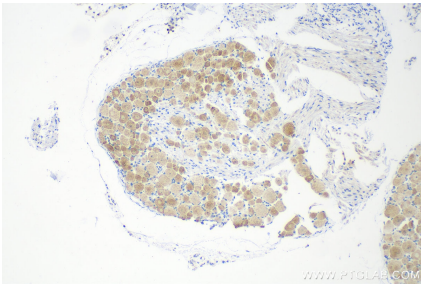
WB result of CHRNA7 antibody (82848-3-RR; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-CHRNA7 transfected Jurkat cells.



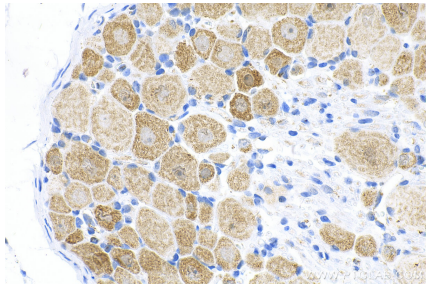
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82848-3-RR (CHRNA7 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



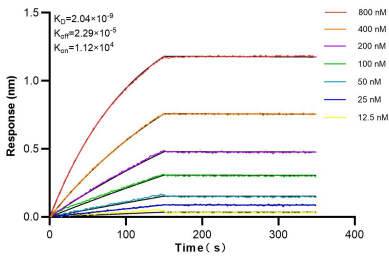
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82848-3-RR (CHRNA7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat dorsal root ganglion tissue slide using 82848-3-RR (CHRNA7 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat dorsal root ganglion tissue slide using 82848-3-RR (CHRNA7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 82848-3-RR against Human CHRNA7 (48 kDa) were performed. The affinity constant is 2.04 nM.