

For Research Use Only

CHRNA7 Polyclonal antibody

Catalog Number: 21379-1-AP

Featured Product

16 Publications



Basic Information

Catalog Number:

21379-1-AP

Size:

800 µg/ml

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:

56 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Applications

Tested Applications:

WB, FC, IHC, ELISA

Cited Applications:

WB, IF, FC, IHC

Species Specificity:

human, rat, mouse

Cited Species:

human, rat, 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 : Jurkat cells, rat brain tissue, mouse skeletal muscle tissue, HL-60 cells, MCF-7 cells, SH-SY5Y cells

IHC : mouse brain tissue, human brain 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)

Notable Publications

Author	Pubmed ID	Journal	Application
Ke-Wei Chang	30217465	Neurochem Int	WB
Jiang Qian	31634461	Eur J Pharmacol	WB
Li Zhou	34880768	Front Pharmacol	WB,IF

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

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

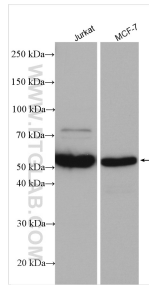
T: 4006900926

E: Proteintech-CN@ptglab.com

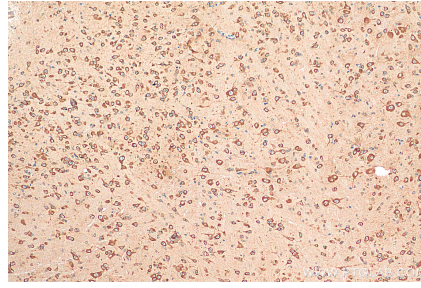
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

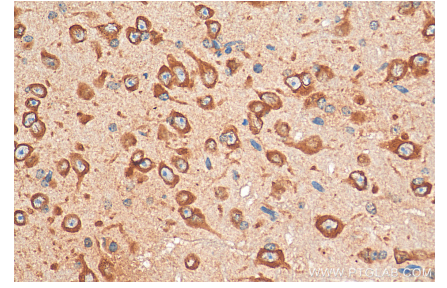
Selected Validation Data



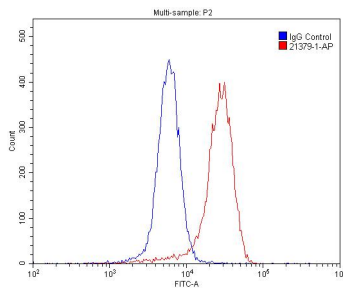
Various lysates were subjected to SDS PAGE followed by western blot with 21379-1-AP (CHR7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



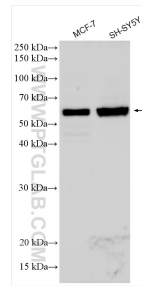
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21379-1-AP (CHR7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



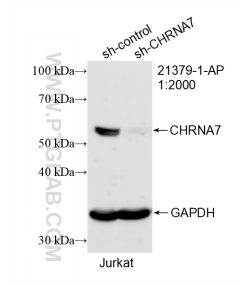
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21379-1-AP (CHR7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 SH-SY5Y cells were stained with 0.2ug CHR7 antibody (21379-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



Various lysates were subjected to SDS PAGE followed by western blot with 21379-1-AP (CHR7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



WB result of CHR7 antibody (21379-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CHR7 transfected Jurkat cells.