

For Research Use Only

# CHRNA7 Polyclonal antibody

Catalog Number: 21379-1-AP

Featured Product

22 Publications



## Basic Information

**Catalog Number:**

21379-1-AP

**Size:**

150ul, Concentration: 800 µg/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:**

56 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

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: 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

\*\*\* 20ul sizes contain 0.1% BSA

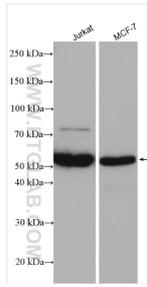
For technical support and original validation data for this product please contact:

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

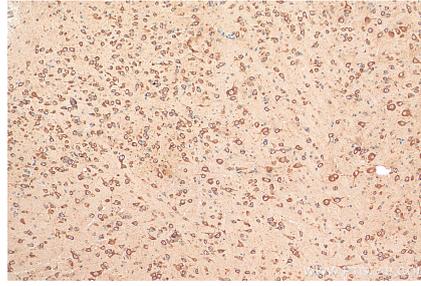
E: proteintech@ptglab.com  
W: ptglab.com

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

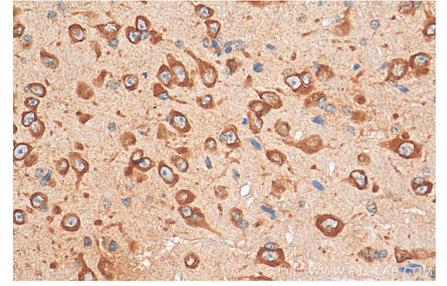
## Selected Validation Data



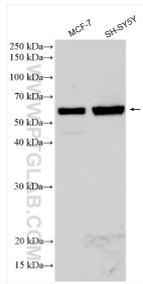
Various lysates were subjected to SDS PAGE followed by western blot with 21379-1-AP (CHRNA7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



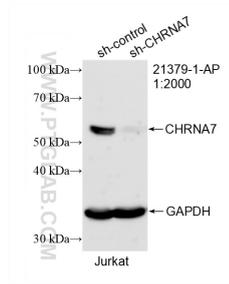
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21379-1-AP (CHRNA7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21379-1-AP (CHRNA7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 21379-1-AP (CHRNA7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



WB result of CHRNA7 antibody (21379-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CHRNA7 transfected Jurkat cells.