

For Research Use Only

CHRNA7 Recombinant antibody

Catalog Number: 82848-4-RR



Basic Information

Catalog Number:

82848-4-RR

Size:

1000 ug/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:

50 kDa, 56 kDa

Purification Method:

Protein A purification

CloneNo.:

240117D12

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : rat brain tissue, mouse 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)

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:

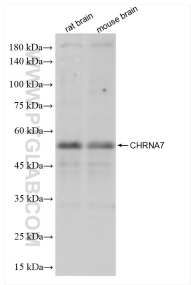
T: 4006900926

E: Proteintech-CN@ptglab.com

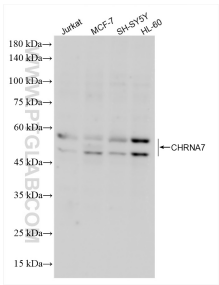
W: ptgcn.com

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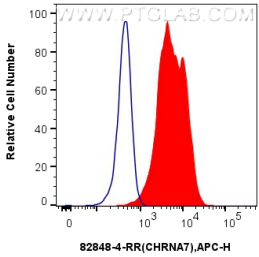
Selected Validation Data



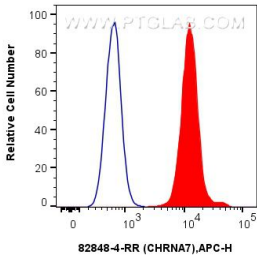
Various lysates were subjected to SDS PAGE followed by western blot with 82848-4-RR (CHRNA7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



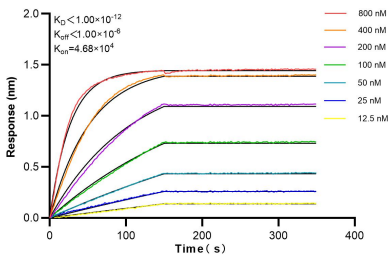
Various lysates were subjected to SDS PAGE followed by western blot with 82848-4-RR (CHRNA7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10⁶ SH-SY5Y cells were intracellularly stained with 0.25 ug Chrna7 Recombinant Antibody (82848-4-RR, Clone:240117D12) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug CHRNA7 Recombinant antibody (82848-4-RR, Clone:240117D12) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 82848-4-RR against Human CHRNA7 were performed. The affinity constant is below 1 pM.