## For Research Use Only

## CHRNA7 (48 kDa) Recombinant antibody, PBS Only Catalog Number:82848-3-PBS Featured Product

Featured Product



Basic Information	Catalog Number: 82848-3-PBS Size: 1mg/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 Calculated MW: 502 aa, 56 kDa Observed MW:	Purification Method: Protein A purification CloneNo.: 2A10
Applications	Tested Applications: WB, IHC, Indirect ELISA Species Specificity: human, mouse, rat	~50 kDa	
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 CHRFAM7A 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 -80°C. The product is shipped with ice pack Storage Buffer: PBS Only	s. Upon receipt, store it immediately a	t -80°C

For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 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 82848-3-RR (CHRNA7 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BL1) kinetic assays of 82848-3-RR against Human CHRNA7 (48 kDa) were performed. The affinity constant is 2.04 nM.