For Research Use Only

CHRNA7 Recombinant antibody

Catalog Number:82848-4-RR



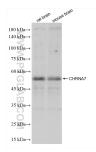
Basic Information	Catalog Number: 82848-4-RR	GenBank Accession Number: BC037571	Purification Method: Protein A purfication		
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG15980	GeneID (NCBI): / 1139 UNIPROT ID: P36544	CloneNo.: 240117D12 Recommended Dilutions: WB 1:500-1:2000		
				Full Name: cholinergic receptor, nicotinic, alpha 7 Calculated MW: 502 aa, 56 kDa	
		Observed MW: 50 kDa, 56 kDa			
		Applications	Tested Applications: WB, FC (Intra), ELISA	Positive Controls: WB : rat brain tissue, mouse brain tissue	
			Species Specificity: human, mouse, rat		
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 -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.				
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20°C st				

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.comW: ptglab.comW: ptglab.com

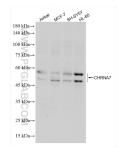
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

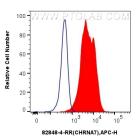
temperature for 1.5 hours.



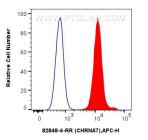
Various lysates were subjected to SDS PAGE followed by western blot with 82848-4-RR (CHRNA7 antibody) at dilution of 1:1000 incubated at room

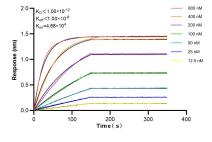


Various lysates were subjected to SDS PAGE followed by western blot with 82848-4-RR (CHRNA7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10^6 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).





1x10^6 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 (BL1) kinetic assays of 82848-4-RR against Human CHRNA 7 were performed. The affinity constant is below 1 pM.