

For Research Use Only

# CHRNA7 Recombinant antibody, PBS Only



Catalog Number: 82848-3-PBS

## Basic Information

<b>Catalog Number:</b> 82848-3-PBS	<b>GenBank Accession Number:</b> BC037571	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1mg/ml	<b>GeneID (NCBI):</b> 1139	<b>CloneNo.:</b> 2A10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P36544	
<b>Isotype:</b> IgG	<b>Full Name:</b> cholinergic receptor, nicotinic, alpha 7	
<b>Immunogen Catalog Number:</b> AG15980	<b>Calculated MW:</b> 502 aa, 56 kDa	
	<b>Observed MW:</b> ~50 kDa	

## Applications

**Tested Applications:**  
Indirect ELISA, IHC, WB

**Species Specificity:**  
rat, mouse

## 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.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

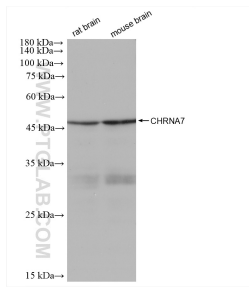
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

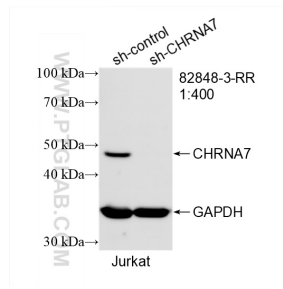
W: [ptgcn.com](http://ptgcn.com)

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

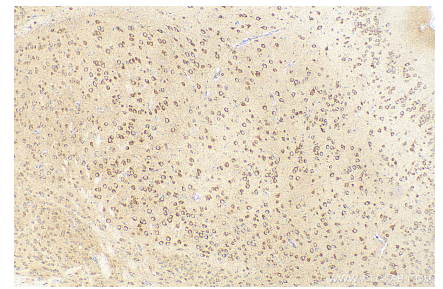
## Selected Validation Data



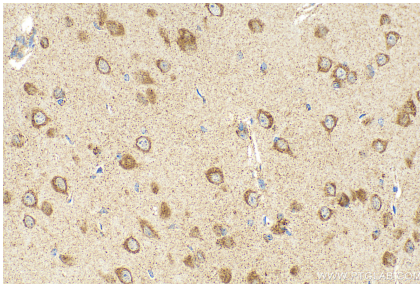
Various lysates were subjected to SDS PAGE followed by western blot with 82848-3-RR (CHRNA7 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



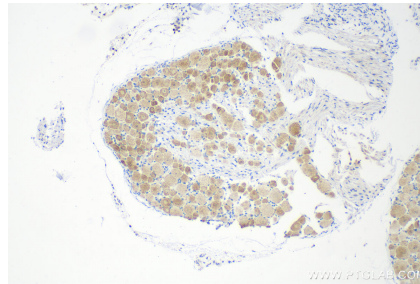
WB result of CHRNA 7 antibody (82848-3-RR; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-CHRNA7 transfected Jurkat cells. This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



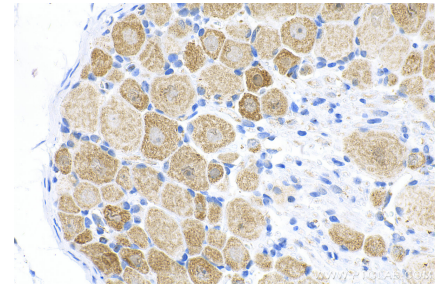
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82848-3-RR (CHRNA7 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



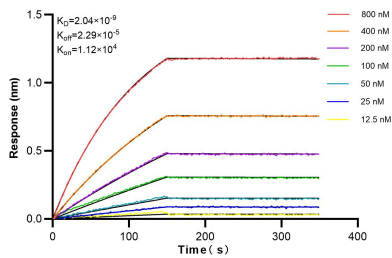
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82848-3-RR (CHRNA7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82848-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded 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 paraffin-embedded 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 (BLI) kinetic assays of 82848-3-RR against Human CHRNA7 (48 kDa) were performed. The affinity constant is 2.04 nM.