For Research Use Only

PPP1R9B Recombinant antibody, PBS Only

Catalog Number:85198-1-PBS

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Basic Information

Catalog Number:
85198-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_032595

GeneID (NCBI):
84687

UNIPROT ID:
Q96SB3

Full Name:
protein phosphatase 1, regulatory (inhibitor) subunit 9B

Calculated MW:
89 kDa

Observed MW:
120-130 kDa

Purification Method:
Protein A purfication

CloneNo.:
242418G10

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

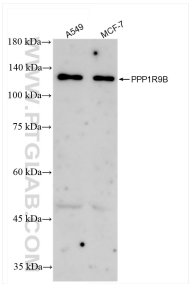
Neurabin 2, also named as Spinophilin, seems to act as a scaffold protein in multiple signaling pathways. It modulates excitatory synaptic transmission and dendritic spine morphology. PPP1R9B binds to actin filaments (F-actin) and shows cross-linking activity. It may play an important role in linking the actin cytoskeleton to the plasma membrane at the synaptic junction. PPP1R9B plays a role in regulation of G-protein coupled receptor signaling, including D2Rs and alpha-adrenergic receptors. PPP1R9B probably regulates p70 S6 kinase activity by forming a complex with TIAM. The antibody is specific to PPP1R9B. The predicted molecular weight of spinophilin is 89 kDa, which differs significantly from the apparent MW seen in SDS/PAGE. Both the expressed full-length cDNA and the endogenous protein run at 120-130 kDa. This may be due to an extended conformation and/or low SDS binding capacity. (PMID: 28941770, PMID: 9275233).

Storage

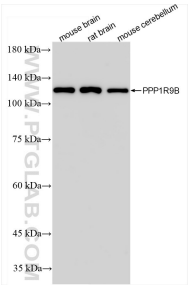
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85198-1-RR (PPP1R9B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85198-1-PBS in a different storage buffer formulation.



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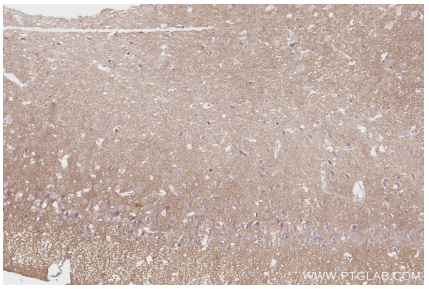

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 85198-1-RR (PPP1R9B antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85198-1-PBS in a different storage buffer formulation.