

For Research Use Only

PPP1R9B Recombinant antibody

Catalog Number: 85198-1-RR



Basic Information

Catalog Number: 85198-1-RR	GenBank Accession Number: NM_032595	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 84687	CloneNo.: 242418G10
Source: Rabbit	UNIPROT ID: Q96SB3	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:500-1:2000
Isotype: IgG	Full Name: protein phosphatase 1, regulatory (inhibitor) subunit 9B	
	Calculated MW: 89 kDa	
	Observed MW: 120-130 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse brain tissue, A549 cells, MCF-7 cells, rat brain tissue, mouse cerebellum tissue

IHC: mouse brain tissue,

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 -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

*** 20ul sizes contain 0.1% BSA

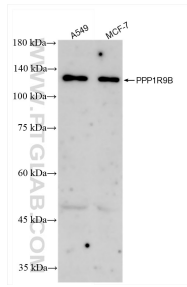
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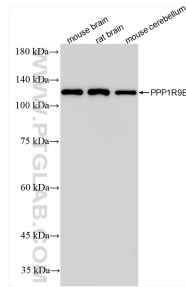
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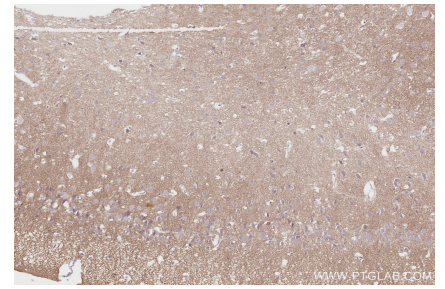
Selected Validation Data



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.



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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).