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# PPP1R9B Antibody (N-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP16585a**

## Specification

### PPP1R9B Antibody (N-term) - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | Q96SB3 |
| Other Accession | NP_115984.3 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **89334** |
| Antigen Region | **24-53** |

### PPP1R9B Antibody (N-term) - Additional Information

**Gene ID** 84687

**Other Names**
Neurabin-2, Neurabin-II, Protein phosphatase 1 regulatory subunit 9B, Spinophilin, PPP1R9B, PPP1R6

**Target/Specificity**
This PPP1R9B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 24-53 amino acids from the N-terminal region of human PPP1R9B.

**Dilution**
WB~~1:1000

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
PPP1R9B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### PPP1R9B Antibody (N-term) - Protein Information

**Name** PPP1R9B

**Synonyms** PPP1R6

**Function** Seems to act as a scaffold protein in multiple signaling pathways. Modulates excitatory synaptic transmission and dendritic spine morphology. Binds to actin filaments (F-actin) and shows cross- linking activity. Binds along the sides of the F-actin. May play an important role in linking the actin cytoskeleton to the plasma membrane at the synaptic junction. Believed to target protein phosphatase 1/PP1 to dendritic spines, which are rich in F-actin, and regulates its specificity toward ion channels and other substrates, such as AMPA-type and NMDA-type glutamate receptors. Plays a role in regulation of G- protein coupled receptor signaling, including dopamine D2 receptors and alpha-adrenergic receptors. May establish a signaling complex for dopaminergic neurotransmission through D2 receptors by linking receptors downstream signaling molecules and the actin cytoskeleton. Binds to ADRA1B and RGS2 and mediates regulation of ADRA1B signaling. May confer to Rac signaling specificity by binding to both, RacGEFs and Rac effector proteins. Probably regulates p70 S6 kinase activity by forming a complex with TIAM1 (By similarity). Required for hepatocyte growth factor (HGF)-induced cell migration.

**Cellular Location**
Cytoplasm, cytoskeleton. Nucleus. Cell projection, dendritic spine {ECO:0000250|UniProtKB:O35274}. Postsynaptic density {ECO:0000250|UniProtKB:O35274}. Synapse. Cell junction, adherens junction. Cytoplasm. Cell membrane. Cell projection, lamellipodium. Cell projection, filopodium. Cell projection, ruffle membrane. Note=Enriched at synapse and cadherin-based cell-cell adhesion sites. In neurons, both cytosolic and membrane-associated, and highly enriched in the postsynaptic density apposed to exitatory synapses. Colocalizes with PPP1R2 at actin-rich adherens junctions in epithelial cells and in dendritic spines (By similarity). Accumulates in the lamellipodium, filopodium and ruffle membrane in response to hepatocyte growth factor (HGF) treatment.

## PPP1R9B Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## PPP1R9B Antibody (N-term) - Images

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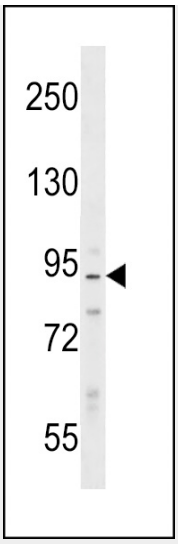


PPP1R9B Antibody (N-term) (Cat. #AP16585a) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the PPP1R9B antibody detected the PPP1R9B protein (arrow).

**PPP1R9B Antibody (N-term) - Background**

Spinophilin is a regulatory subunit of protein phosphatase-1 catalytic subunit (PP1; see MIM 176875) and is highly enriched in dendritic spines, specialized protrusions from dendritic shafts that receive most of the excitatory input in the central nervous system (Allen et al., 1997 [PubMed 9275233]).

**PPP1R9B Antibody (N-term) - References**

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