

For Research Use Only

PPP1R9B Polyclonal ANTIBODY



Catalog Number: 55129-1-AP

1 Publications

Basic Information

Catalog Number:
55129-1-AP

Size:
44 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:

GenBank Accession Number:
NM_032595

GeneID (NCBI):
84687

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

Calculated MW:
89 kDa

Observed MW:
120-130 kDa

Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 µg for IP and 1:200-1:1000 for WB

IHC 1:20-1:200

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

**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; mouse spleen tissue

IP : mouse brain tissue;

IHC : human brain tissue;

Background Information

PPP1R9B, also named as PPP1R6, Neurabin-II and 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 dopamine D2 receptors and alpha-adrenergic receptors. It may establish a signaling complex for dopaminergic neurotransmission through D2 receptors by linking receptors downstream signaling molecules and the actin cytoskeleton. PPP1R9B probably regulates p70 S6 kinase activity by forming a complex with TIAM. The antibody is specific to PPP1R9B. Observed MW of PPP1R9B is 120 kDa (PMD: 28941770).

Notable Publications

Author	Pubmed ID	Journal	Application
Chong Wang	24820113	Toxicology	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

0.1M NaHCO₃, 0.1M glycine, 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

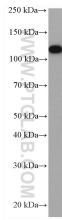
For technical support and original validation data for this product please contact:

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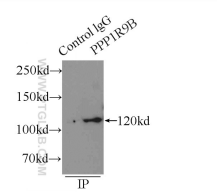
Selected Validation Data



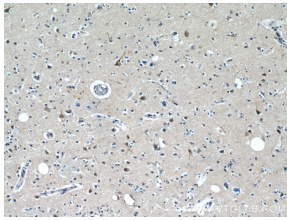
mouse brain tissue were subjected to SDS PAGE followed by western blot with 55129-1-AP (PPP1R9B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



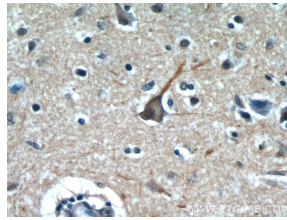
mouse brain tissue were subjected to SDS PAGE followed by western blot with 55129-1-AP (PPP1R9B antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours



IP Result of anti-PPP1R9B (IP:55129-1-AP, 4ug; Detection:55129-1-AP 1:300) with mouse brain tissue lysate 6000ug.



Immunohistochemical analysis of paraffin-embedded human brain using 55129-1-AP(PPP1R9B antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical analysis of paraffin-embedded human brain using 55129-1-AP(PPP1R9B antibody) at dilution of 1:50 (under 40x lens)