

# Neurabin 2 Polyclonal antibody

Catalog Number: 55129-1-AP

Featured Product

4 Publications

## Basic Information

## Catalog Number:

55129-1-AP

## Size:

700 µg/ml

## 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:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

## Tested Applications:

IHC, IP, WB, ELISA

## Cited Applications:

WB, IP

## Species Specificity:

human, mouse

## Cited Species:

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, A549 cells

IP : mouse brain tissue,

IHC : human 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Min Wu	35224156	Genes Dis	WB
Chong Wang	24820113	Toxicology	WB
Yize Qi	38488561	Neural Regen Res	WB

## Storage

## Storage:

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

## Storage Buffer:

0.1M NaHCO<sub>3</sub>, 0.1M glycine, 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

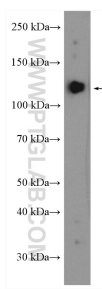
For technical support and original validation data for this product please contact:

T: 4006900926

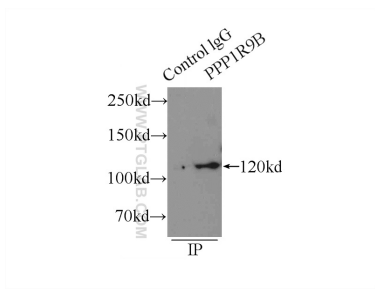
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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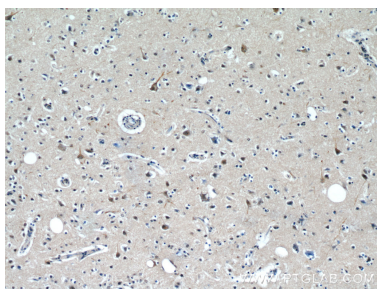
Selected Validation Data



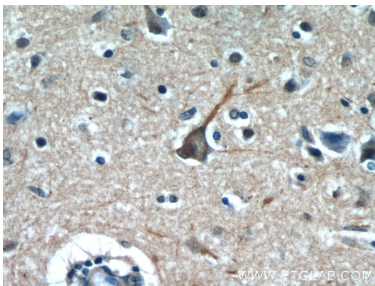
mouse brain tissue were subjected to SDS PAGE followed by western blot with 55129-1-AP (Neurabin 2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



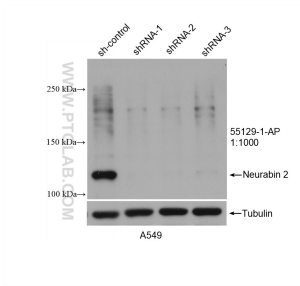
IP result of anti-Neurabin 2 (IP:55129-1-AP, 4ug; Detection:55129-1-AP 1:300) with mouse brain tissue lysate 6000ug.



Immunohistochemical analysis of paraffin-embedded human brain using 55129-1-AP (Neurabin 2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 55129-1-AP (Neurabin 2 antibody) at dilution of 1:50 (under 40x lens).



WB result of PPP1R9B antibody (55129-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Neurabin 2 transfected A549 cells.