

For Research Use Only

Neurabin 2 Polyclonal antibody

Catalog Number: 55129-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

55129-1-AP

Size:

150ul, Concentration: 293 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_032595

GeneID (NCBI):

84687

UNIPROT ID:

Q965B3

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IP

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB : mouse brain tissue, A549 cells

IP : mouse brain tissue,

IHC : human brain tissue,

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

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

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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)

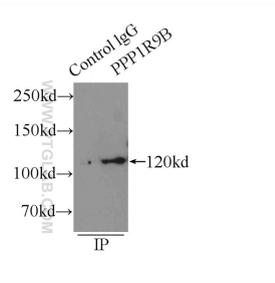
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

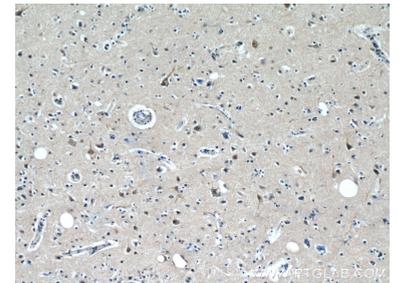
Selected Validation Data



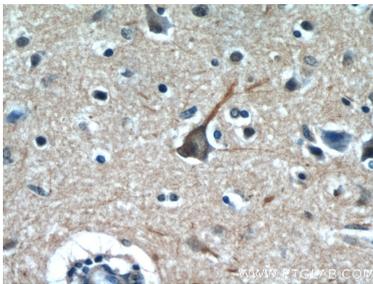
mouse brain tissue were subjected to SDS PAGE followed by western blot with 55129-1-AP (Neurabin 2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



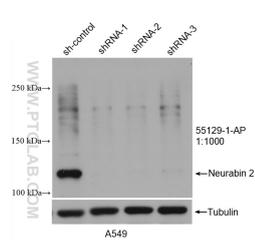
IP result of anti-Neurabin 2 (IP:55129-1-AP, 4ug; Detection:55129-1-AP 1:300) with mouse brain tissue lysate 6000ug.



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.