

For Research Use Only

SRGAP2 Polyclonal antibody

Catalog Number: 22519-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

22519-1-AP

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18278

GenBank Accession Number:

BC132874

GeneID (NCBI):

23380

UNIPROT ID:

O75044

Full Name:

SLIT-ROBO Rho GTPase activating protein 2

Calculated MW:

1071 aa, 121 kDa

Observed MW:

121 kDa

Purification Method:

Antigen Affinity purified

Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF

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 kidney tissue, HEK-293 cells

IP: HEK-293 cells,

IHC: mouse brain tissue, human kidney tissue

Background Information

SLIT-ROBO Rho GTPase-activating protein 2 (SRGAP2) is also named as ARHGAP34, FNBP2, KIAA0456 and SRGAP2A. SRGAP2 plays important roles in axon guidance, neuronal migration, synapse formation, and nerve regeneration. SRGAP2 protein was first expressed in the retina of normal mice at the embryonic stage and was mainly located in the mature retinal ganglion cell layer and the inner nuclear layer (PMID: 37056152). SRGAP2 plays a key role in neuronal morphogenesis and migration mainly during development of the cerebral cortex (PMID: 20810653, PMID: 27373832, PMID: 28333212). SRGAP2 are critical for neuronal migration through inactivation of Rho GTPases Cdc42, Rac1, and RhoA (PMID: 20810653). SRGAP2A promotes synaptic maturation, and ultimately the synaptic accumulation of AMPA and GABAA receptors, by interacting with key components of both excitatory and inhibitory postsynaptic scaffolds, Homer and Gephyrin (PMID: 27373832).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------------|-----------|--------------|-------------|
| Chen Li | 36593959 | Theranostics | WB,IHC,IF |
| Doris Wennagel | 36044862 | Cell Rep | WB |
| Abigail U Carbonell | 31388001 | Nat Commun | WB |

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

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

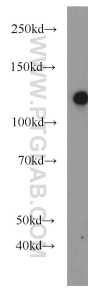
T: 4006900926

E: Proteintech-CN@ptglab.com

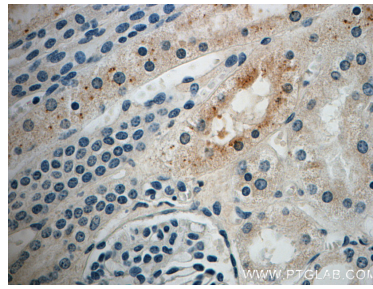
W: ptgcn.com

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

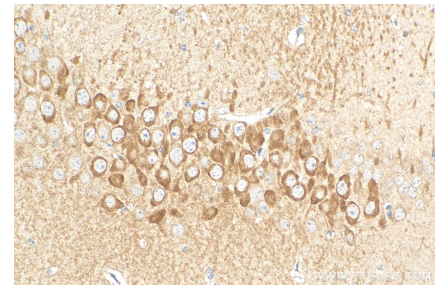
Selected Validation Data



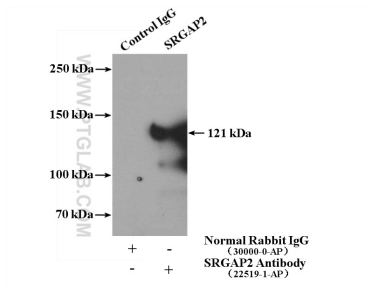
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 22519-1-AP (SRGAP2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney slide using 22519-1-AP (SRGAP2 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 22519-1-AP (SRGAP2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-SRGAP2 (IP:22519-1-AP, 4ug; Detection:22519-1-AP 1:1000) with HEK-293 cells lysate 3000ug.