

For Research Use Only

# SRGAP2 Polyclonal antibody

Catalog Number: 22519-1-AP

Featured Product

4 Publications



## Basic Information

### Catalog Number:

22519-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop and 380 ug/ml by Bradford method using BSA as the standard;

### 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 ug 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

### Positive Controls:

WB: mouse kidney tissue, HEK-293 cells

IP: HEK-293 cells,

IHC: mouse brain tissue, human kidney 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

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

\*\*\* 20ul sizes contain 0.1% BSA

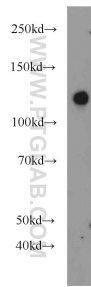
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

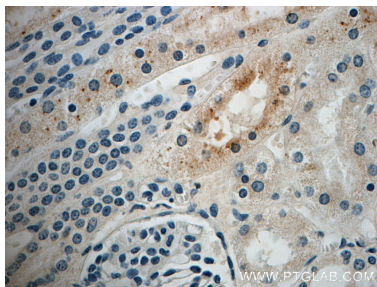
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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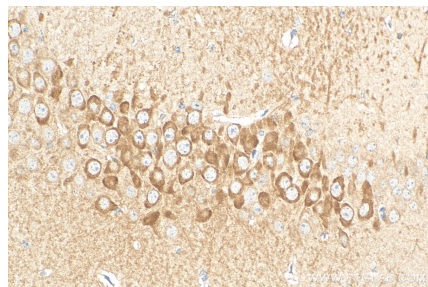
Selected Validation Data



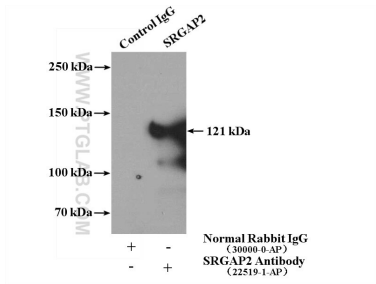
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 22519-1-AP (SRGAP2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.