

For Research Use Only

# SHANK1 Polyclonal antibody

Catalog Number: 55059-1-AP

2 Publications



## Basic Information

### Catalog Number:

55059-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 420 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_016148

### GeneID (NCBI):

50944

### UNIPROT ID:

Q9Y566

### Full Name:

SH3 and multiple ankyrin repeat domains 1

### Calculated MW:

225 kDa

### Observed MW:

159-225 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IF-P, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

rat, mouse

### Positive Controls:

WB : HEK-293T cells, Neuro-2a cells

IP : HEK-293T cells,

IF-P : mouse eye tissue,

## Background Information

SHANK1 belongs to the SHANK family. It seems to be an adapter protein in the postsynaptic density (PSD) of excitatory synapses that interconnects receptors of the postsynaptic membrane including NMDA-type and metabotropic glutamate receptors via complexes with GKAP/PSD-95 and Homer, respectively, and the actin-based cytoskeleton. SHANK1 may play a role in the structural and functional organization of the dendritic spine and synaptic junction. The antibody is specific to SHANK1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zeyu Zhang	30297870	Cell Res	WB
Shan Hui	29171433	Neural Regen Res	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

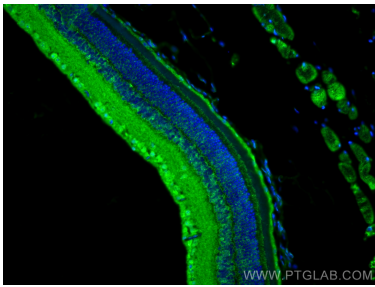
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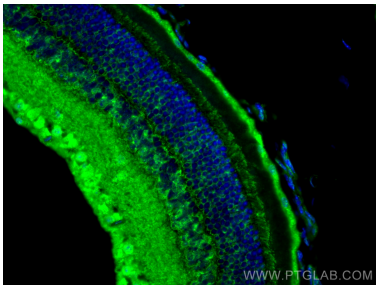
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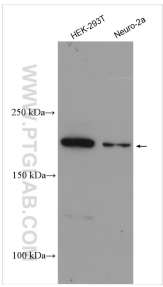
Selected Validation Data



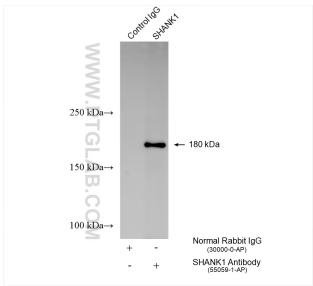
Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using SHANK1 antibody (55059-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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Various lysates were subjected to SDS PAGE followed by western blot with 55059-1-AP (SHANK1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



IP result of anti-SHANK1 (IP:55059-1-AP, 4ug; Detection:55059-1-AP 1:400) with HEK-293T cells lysate 1155 ug.