

For Research Use Only

SHANK2 Polyclonal antibody

Catalog Number: 27272-1-AP



Basic Information

Catalog Number:

27272-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26101

GenBank Accession Number:

NM_012309

GeneID (NCBI):

22941

UNIPROT ID:

Q9UPX8

Full Name:

SH3 and multiple ankyrin repeat domains 2

Calculated MW:

159 kDa

Observed MW:

158-200 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

Background Information

SH3 and multiple ankyrin repeat domains protein 2 (SHANK2) is also named as CORTBP1, KIAA1022, PROSAP1. SHANK2 code a scaffolding protein located at the postsynaptic membrane of glutamatergic neurons (PMID: 32987185). SHANK2 encodes for a postsynaptic scaffolding protein at glutamatergic synapses in the brain, essential for proper synapse formation, development and plasticity (PMID: 11283303, PMID: 12065602). As SHANK2 directly interacts with IRSp53 (insulin receptor substrate p53), it may be involved in insulin signaling in the brain, making this pathway susceptible to SHANK2 mutations (PMID: 33483523). In the SFARI gene database, SHANK2 is categorized as a high confidence autism risk gene. In addition, SHANK2 has been linked to the pathology of neuropsychiatric (schizophrenia, bipolar disorder) and neurodegenerative disorders (PMID: 33483523).

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

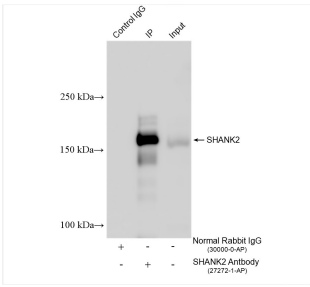
For technical support and original validation data for this product please contact:

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

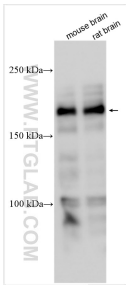
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



IP result of anti-SHANK2 (IP:27272-1-AP, 4ug;
Detection:27272-1-AP 1:1000) with mouse brain
tissue lysate 1600 ug.



Various lysates were subjected to SDS PAGE
followed by western blot with 27272-1-AP (SHANK2
antibody) at dilution of 1:1000 incubated at room
temperature for 1.5 hours.