

For Research Use Only

SHANK2 Polyclonal antibody, PBS Only

Catalog Number: 27272-1-PBS



Basic Information

Catalog Number: 27272-1-PBS	GenBank Accession Number: NM_012309	Purification Method: Antigen affinity purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 22941	
Source: Rabbit	UNIPROT ID: Q9UPX8	
Isotype: IgG	Full Name: SH3 and multiple ankyrin repeat domains 2	
Immunogen Catalog Number: AG26101	Calculated MW: 159 kDa	
	Observed MW: 158-200 kDa	

Applications

Tested Applications:
WB, IP, Indirect ELISA

Species Specificity:
human, mouse, rat

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

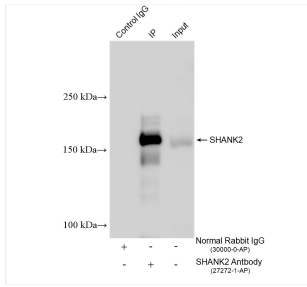
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

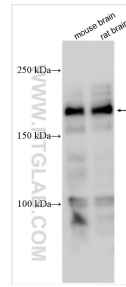
For technical support and original validation data for this product please contact:
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Selected Validation Data



IP result of anti-SHANK2 (IP:27272-1-AP, 4ug; Detection:27272-1-AP 1:1000) with mouse brain tissue lysate 1600 ug. This data was developed using the same antibody clone with 27272-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 27272-1-PBS in a different storage buffer formulation.