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Datasheet for 200-301-G44

SHANK2 Antibody

Overview

Description:	Anti-SHANK2 (MOUSE) Monoclonal Antibody - 200-301-G44
Item No.:	200-301-G44
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Shank proteins make up a family of scaffold proteins identified through their interaction with a variety of membrane and cytoplasmic proteins. Shank proteins at postsynaptic sites of excitatory synapses play roles in signal transmission into the postsynaptic neuron. Studies suggest that Shank2 is expressed in the neurons of the developing retina, and could play a role in the neuronal differentiation of the developing retina. Other recent studies suggest that the disruption of glutamate receptors at the shank post synaptic platform could contribute to the destruction of the postsynaptic density, which underlies the synaptic dysfunction and loss in Alzheimer's disease.
Synonyms:	SH3 and multiple ankyrin repeat domains protein 2, Shank2, Cortactin-binding protein 1, CortBP1, GKAP/SAPAP-interacting protein, Proline-rich synapse-associated protein 1, ProSAP1, SPANK-3
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	N23b/6
Format:	IgG1

Target Details

Gene Name:	Shank2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein

Immunogen:	SHANK2 Antibody was produced in mice by repeated immunizations raised against a fusion protein corresponding to an internal region of (SH3/PDZ domains) of rat Shank2 (SH3 and multiple ankyrin repeat domains protein 2.
Purity/Specificity:	Anti-SHANK2 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with SHANK2 from human, mouse, and rat based on 100% homology with the immunizing sequence. No cross-reactivity against Shank1 or Shank3. Cross-reactivity with Shank2 from other sources has not been determined. Scaffolds research.
Relevant Links:	• NCBI - NP_958738.1 • GeneID - 171093 • UniProtKB - Q9QX74

Application Details

Tested Applications:	IF, IHC, IP, WB
Application Note:	Anti-SHANK2 Antibody is tested for use in WB, IHC, IF, and IP. Expect a band approximately ~160kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1.0-10ug/mL
IHC:	0.1-1.0ug/mL
IP:	User Optimized
WB:	1-10ug/mL

Formulation

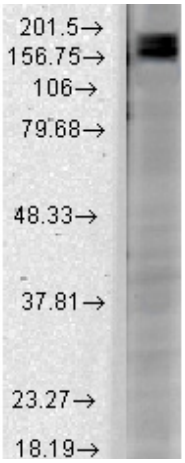
Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of mouse anti-SHANK2 antibody. Lane 1: Rat Brain Membrane lysate. Primary antibody: SHANK2 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size:158.6 kDa/160kD. Other band(s): none.

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