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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-SHANK1/SHANK3 Antibody [S367-51]

Mouse Anti-Rat SHANK1/SHANK3 Monoclonal IgG2a
Catalog No. SMC-460



Discovery through partnership | Excellence through quality

Overview

Product Name

SHANK1/SHANK3 Antibody

Description

Mouse Anti-Rat SHANK1/SHANK3 Monoclonal IgG2a

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF

Antibody Dilution

WB (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Rat

Immunogen

Fusion protein amino acids 538-626 (SH3 domain) of rat SHANK3. Mouse: 100% identity (89/89 amino acids identical). Human: 97% identity (87/89 amino acids identical). ~70% identity with SHANK1 and SHANK2.

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S367-51

Isotype

IgG2a

Specificity

Detects ~190kDa. Cross-reacts with SHANK1. Does not cross-react with SHANK2.

Cite This Product

Mouse Anti-Rat SHANK3 Monoclonal, Clone S367-51 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-460)

Certificate Of Analysis

1 µg/ml of SMC-460 was sufficient for detection of SHANK1/SHANK3 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

Shank postsynaptic density protein Antibody, SH3 and multiple ankyrin repeat domains 3 Antibody, Proline rich synapse associated protein 2 Antibody, Proline-rich synapse-associated protein 2 Antibody, ProSAP2 Antibody, PSAP2 Antibody, Antibody, SH3 and multiple ankyrin repeat domains protein 3 Antibody, SH3/ankyrin domain gene 3, Shank3b Antibody, SPANK 2 Antibody, SPANK2 Antibody, KAP/SAPAP interacting protein Antibody, OTTHUMP00000174437 Antibody, SH3 and multiple ankyrin repeat domains 1 Antibody, SH3 and multiple ankyrin repeat domains protein 1 Antibody, SH3/ankyrin domain gene 1 Antibody, SHANK 1 Antibody, Shank1 Antibody, Shank1a Antibody, Somatostatin receptor interacting protein Antibody, Somatostatin receptor-interacting protein Antibody, SPANK 1 Antibody, SPANK1 Antibody, SSTR interacting protein Antibody, SSTR-interacting protein Antibody, SSTRIP Antibody, Synamon Antibody, AI841104 Antibody, DEL22q13.3 Antibody, KIAA1650 Antibody

Research Areas

Cell Signaling, Cell Structure, Neuroscience, Post-Synaptic Markers, Scaffolds

Cellular Localization

Cytoplasm, Cell Junction

Accession Number

NP_067708.1

Gene ID

59312

Swiss Prot

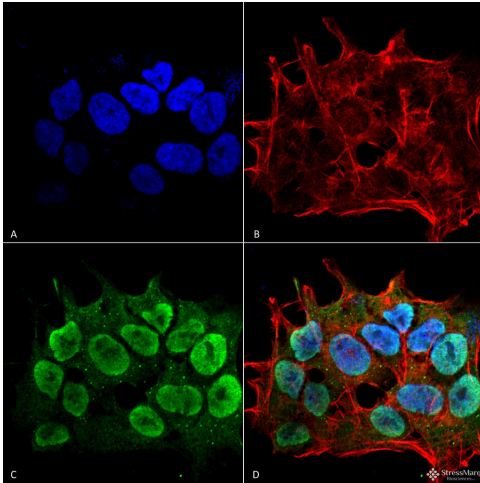
Q9JLU4

Scientific Background

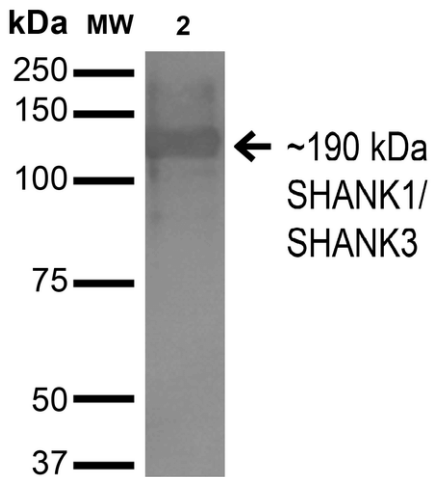
SHANK proteins are scaffolding adaptors that have been shown to integrate neurotransmitter receptors into the cortical cytoskeleton at postsynaptic densities. SHANK1-3 of the SHANK/ProSAP family are molecular scaffolds in the postsynaptic density (PSD). SHANK recruits betaPIX and PAK to dendritic spines to regulate postsynaptic structure and interacts with ionotropic receptor and metabotropic glutamate receptor complexes. Transcript splice variation in the Shank family influences the spectrum of Shank-

interacting proteins in the PSDs of adult and developing brain to ensure normal development.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK1/SHANK3 Monoclonal Antibody, Clone S367-51 (SMC-460). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-SHANK1/SHANK3 Monoclonal Antibody (SMC-460) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000; 1:5000 for 60 min RT, 5 min RT. Localization: Cytoplasm, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) SHANK1/SHANK3 Antibody (D) Composite.



Western Blot analysis of Monkey COS cells transfected with HA-tagged Shank1 showing detection of ~190 kDa SHANK1/SHANK3 protein using Mouse Anti-SHANK1/SHANK3 Monoclonal Antibody, Clone S367-51 (SMC-460). Lane 1: Molecular Weight Ladder. Lane 2: Monkey COS cells transfected with HA-tagged Shank1. Load: 15 µg. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-SHANK1/SHANK3 Monoclonal Antibody (SMC-460) at 1:200 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~190 kDa.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.