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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-SHANK3 Antibody [S69-46]

Mouse Anti-Rat SHANK3 Monoclonal IgG2b
Catalog No. SMC-336



Discovery through partnership | Excellence through quality

Overview

Product Name

SHANK3 Antibody

Description

Mouse Anti-Rat SHANK3 Monoclonal IgG2b

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF, IP

Antibody Dilution

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

Host Species

Mouse

Immunogen Species

Rat

Immunogen

Synthetic peptide amino acids 840-857 of rat Shank3

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 pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S69-46

Isotype

IgG2b

Specificity

Detects ~190kDa. No cross-reactivity against Shank1 or Shank2.

Cite This Product

Mouse Anti-Rat SHANK3 Monoclonal, Clone S69-46 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-336)

Certificate Of Analysis

1 µg/ml of SMC-336 was sufficient for detection of Shank3 in 10 µg COS cell lysate transiently transfected with Shank3 by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

AI841104 antibody, DEL22q13.3 antibody, KIAA1650 antibody, Proline rich synapse associated protein 2 antibody, Proline-rich synapse-associated protein 2 antibody, ProSAP2 antibody, PSAP2 antibody, SH3 and multiple ankyrin repeat domains 3 antibody, SH3 and multiple ankyrin repeat domains protein 3 antibody
SH3/ankyrin domain gene 3 antibody, SHAN3_HUMAN antibody, Shank postsynaptic density protein antibody, Shank3 antibody, Shank3b antibody, SPANK 2 antibody, SPANK2 antibody

Research Areas

Cell Structure, Neuroscience, Post-Synaptic Markers

Cellular Localization

Cytoplasm, Cell Junction, Postsynaptic cell membrane, Postsynaptic density, Synapse

Accession Number

NP_067708.1

Gene ID

59312

Swiss Prot

Q9JLU4

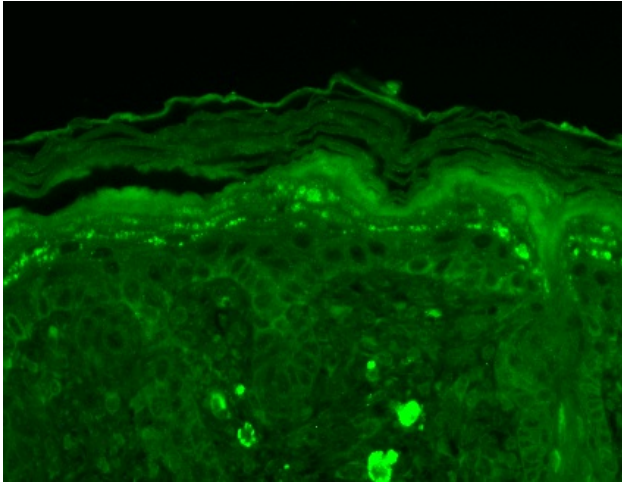
Scientific Background

Shank proteins make up a family of scaffold proteins identified through their interaction with a variety of membrane and cytoplasmic proteins (1). Shank proteins at postsynaptic sites of excitatory synapses play roles in signal transmission into the postsynaptic neuron. Shank proteins are also crucial in receptor tyrosine kinase signaling; specifically, Shank3 can mediate Erk-MAPK and P13K signaling which is crucial for tubule formation (2). Shank3 is also one of the latest genes to be associated with autism. A mutation of a single copy of Shank3 on chromosome 22q13 can result in language and/or social communication disorders (3).

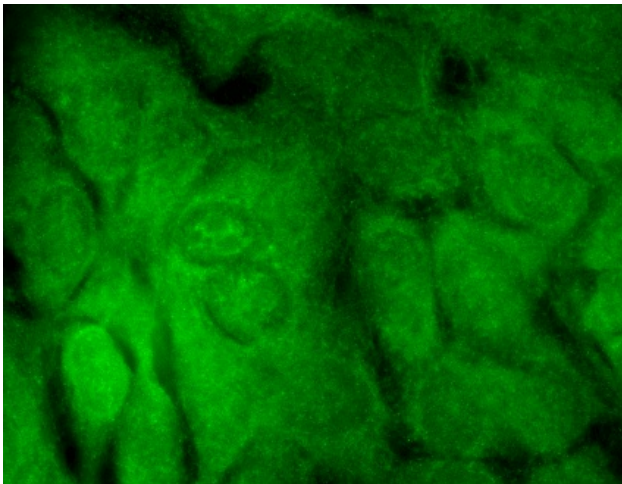
References

1. Sheng M., and Kim E. (2000) *Journal of Cell Science*. 113: 1851-1856.
 2. Schuetz G., et al. (2004) *JCB*. 167(5): 645-952.
 3. Durand C.M., et al. (2007) *Nature Genetics*. 39: 25-27.
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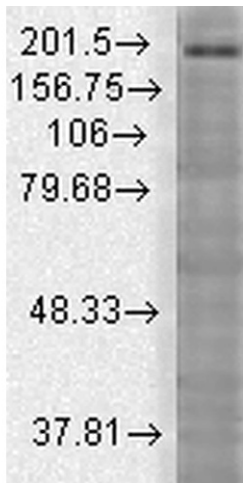
Product Images



Immunohistochemistry analysis using Mouse Anti-SHANK3 Monoclonal Antibody, Clone S69-46 (SMC-336). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-SHANK3 Monoclonal Antibody (SMC-336) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Early stages of filaggrinlike and dermal staining.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK3 Monoclonal Antibody, Clone S69-46 (SMC-336). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-SHANK3 Monoclonal Antibody (SMC-336) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Borderline positive.



Western Blot analysis of Rat brain membrane lysate showing detection of SHANK3 protein using Mouse Anti-SHANK3 Monoclonal Antibody, Clone S69-46 (SMC-336). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-SHANK3 Monoclonal Antibody (SMC-336) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Product Citations (2)

Other Citations

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

PubMed ID: **Reactivity:** Human **Applications:** Antibody Microarray

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PubMed ID: **Reactivity:** Mouse **Applications:** Antibody Microarray

Reviews

There are no reviews yet.