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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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Anti-SAP102 Antibody [S19-2]

Mouse Anti-Rat SAP102 Monoclonal IgG1
Catalog No. SMC-134



Discovery through partnership | Excellence through quality

Overview

Product Name

SAP102 Antibody

Description

Mouse Anti-Rat SAP102 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, IP, 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 1-120 of rat SAP102

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

S19-2

Isotype

IgG1

Specificity

Detects ~105kDa. No cross-reactivity against PSD95, SAP97 or Chapsyn-110.

Cite This Product

Mouse Anti-Rat SAP102 Monoclonal, Clone S19-2 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-134)

Certificate Of Analysis

1 µg/ml was sufficient for detection of Sap102 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary.

Biological Description

Alternative Names

DLG3 Antibody, MRX90 Antibody, NEDLG Antibody, XLMR Antibody, Disks large homolog 3 Antibody, PSD-95/SAP90-related protein 1 Antibody, Synapse-associated protein 102 Antibody, SAP-102 Antibody

Research Areas

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

Cellular Localization

Cytoplasm, Basolateral Cell Membrane, Cell Junction, Growth cone, Postsynaptic cell membrane, Postsynaptic density, Synapse

Accession Number

NP_113827.1

Gene ID

58948

Swiss Prot

Q62936

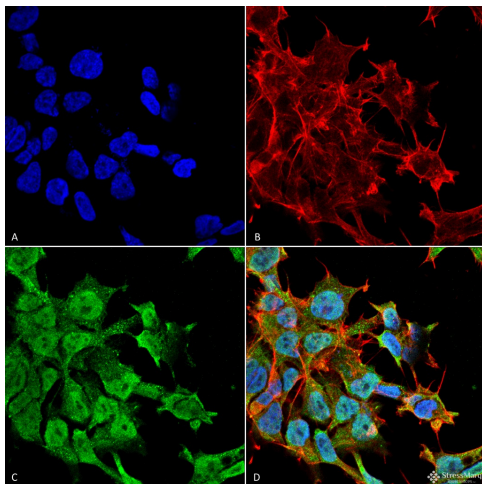
Scientific Background

Synapse-associated protein 102 belongs to the membrane-associated guanylate kinase protein family and is a homolog of the Drosophila dis large tumor suppressor protein. SAP102 has extensive sequence homology to the PSD 95 family of proteins that facilitate ion channel clustering at synaptic terminal (1, 2). SAP102 consists of three 90 amino acids PDZ domains at its amino terminus, a Src homology 3 domain and a guanylate kinase domain (3). All three PDZ domains of SAP102 participate in binding to the NMDA receptor, interacting specifically with the carboxy-terminal domain of the N-methyl-D-aspartate receptor 2B (NR2B). The interaction may facilitate AMPA receptor withdrawal from the postsynaptic membrane by inhibiting the ERK/MAPK pathway (3, 4). SAP102 also interacts with synaptic ras-GTPase activating protein synGAP through its PDZ domains (3). In general, the SAP102 protein is more highly expressed in non-proliferating cells than in proliferating cells, indicating a role in the negative regulation of cell growth.

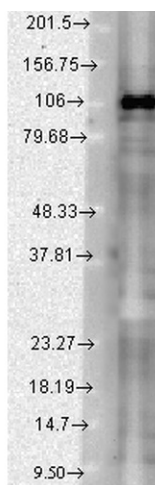
References

1. Muller B.M., et al. (1996) Neuron 17: 255-265.
 2. Lau L. F., et al. (1996) J. Biol. Chem. 271: 21622-21628.
 3. Cuthbert P.C., et al. (2007) J Neuroscience 27:2673-2682.
 4. Lau L.F., et al. (1996) J Biol Chem 274:5782-5790.
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Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SAP102 Monoclonal Antibody, Clone S19-2 (SMC-134). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-SAP102 Monoclonal Antibody (SMC-134) 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 60min RT, 5min RT. Localization: Cytoplasm . Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) SAP102 Antibody (D) Composite.



Western Blot analysis of Rat brain lysates showing detection of SAP102 protein using Mouse Anti-SAP102 Monoclonal Antibody, Clone S19-2 (SMC-134). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-SAP102 Monoclonal Antibody (SMC-134) 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.