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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Neuroigin 1 Antibody [S97A-31]

Mouse Anti-Rat Neuroigin 1 Monoclonal IgG1
Catalog No. SMC-463



Discovery through partnership | Excellence through quality

Overview

Product Name

Neuroigin 1 Antibody

Description

Mouse Anti-Rat Neuroigin 1 Monoclonal IgG1

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 718-843 (cytoplasmic C-terminus) of rat Neuroigin-1. Mouse: 99% identity (125/126 amino acids identical). Human: 99% identity (125/126 amino acids identical) >40% identity with Neuroigin-2 and -3.

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

S97A-31

Isotype

IgG1

Specificity

Detects ~120kDa. Does not cross-react with other Neuroligins.

Cite This Product

Mouse Anti-Rat Neuroligin 1 Monoclonal, Clone S97A-31 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-463)

Certificate Of Analysis

2 µg/ml of SMC-463 was sufficient for detection of Neuroligin-1 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

NLG 1 Antibody, KIAA1070 Antibody, MGC45115 Antibody, Neuroligin-1 Antibody, NL1 Antibody, NLG1 Antibody, Nlgn1 Antibody

Research Areas

Cell Structure, Neuroscience, Post-Synaptic Markers

Cellular Localization

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

Accession Number

NP_446320.1.

Gene ID

116647

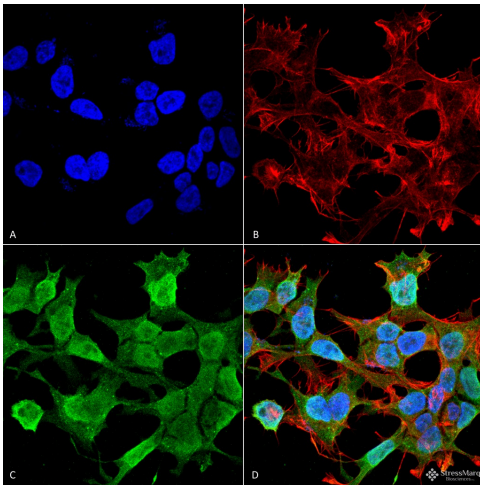
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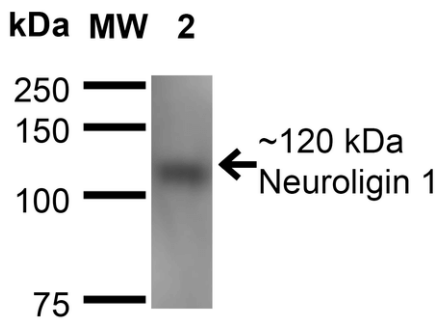
Scientific Background

Neuroligin-1 is a neuronal cell surface protein belonging to the type-B carboxylesterase/lipase family. It is a necessary component in the maturation of excitatory synapses for their normal, functional development, and is necessary to the regulation of synaptic plasticity and the development of long-term memory within the adult amygdala in mammals. It is believed to participate in cell-cell-interaction through the assembly of intracellular junction by the binding of beta-neurexins, and may also be a factor in the maintenance and assembly of synaptic junctions. It is also thought to have involvement in excitatory synaptic specification. Within brain tissue, Neuroligin-1 is primarily observed in neurons and spinal cord.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Neuroigin 1 Monoclonal Antibody, Clone S97A-31 (SMC-463). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Neuroigin 1 Monoclonal Antibody (SMC-463) 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: Cell Membrane, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Neuroigin 1 Antibody (D) Composite.



Western Blot analysis of Mouse Brain Membrane showing detection of ~120 kDa Neuroigin 1 protein using Mouse Anti-Neuroigin 1 Monoclonal Antibody, Clone S97A-31 (SMC-463). Lane 1: Molecular Weight Ladder. Lane 2: Mouse Brain Membrane. Load: 15 μ g. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Neuroigin 1 Monoclonal Antibody (SMC-463) 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: ~120 kDa.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.