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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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Anti-Synaptotagmin-7 Antibody [S275-14]

Mouse Anti-Mouse Synaptotagmin-7 Monoclonal IgG2B
Catalog No. SMC-424



Discovery through partnership | Excellence through quality

Overview

Product Name

Synaptotagmin-7 Antibody

Description

Mouse Anti-Mouse Synaptotagmin-7 Monoclonal IgG2B

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

Mouse

Immunogen

Fusion protein amino acids 150-239 (Cytoplasmic C2A domain) of mouse Synaptotagmin-7

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

S275-14

Isotype

IgG2b

Specificity

Detects ~45kDa. Does not cross-react with Synaptotagmin-6 (or others). Can identify other isoforms bands at ~65kD.

Cite This Product

Mouse Anti-Mouse Synaptotagmin 7 Monoclonal, Clone S275-14 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-424)

Certificate Of Analysis

1 µg/ml of SMC-424 was sufficient for detection of Synaptotagmin-7 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

IPCA-7 Antibody, PCANAP7 Antibody, Prostate cancer-associated protein 7 Antibody, SYT-7 Antibody, SYT7 Antibody, Synaptotagmin 7 Antibody, Synaptotagmin VII Antibody, SytVII Antibody

Research Areas

Cell Structure, Neuroscience, Pre-Synaptic Markers

Cellular Localization

Cytoplasmic Vesicle

Accession Number

NP_061271.1

Gene ID

54525

Swiss Prot

Q9R0N7

Scientific Background

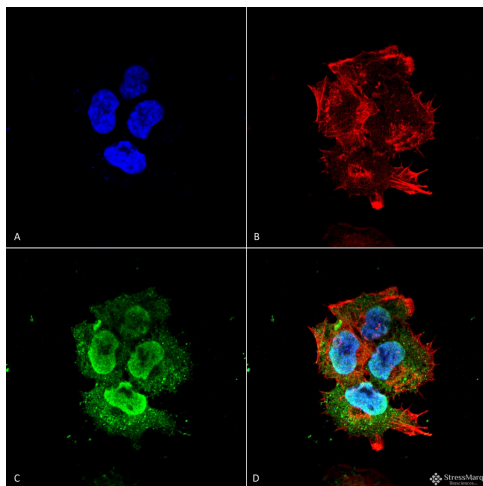
Synaptotagmins constitute a family of membrane-trafficking proteins that are characterized by an N-terminal transmembrane region (TMR), a variable linker, and two C-terminal C2 domains - C2A and C2B. There are 15 members in the mammalian synaptotagmin family. There are several C2-domain containing protein families that are related to synaptotagmins, including transmembrane (Ferlins, E-Syts, and MCTPs) and soluble (RIMs, Munc13s, synaptotagmin-related proteins and B/K) proteins. The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin participates in triggering neurotransmitter release at the synapse. The first domain mediates Ca(2+)-dependent phospholipid binding. The second C2 domain mediates interaction with Stonin 2. Synaptotagmin may have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a

diacylbackbone. A Ca²⁺-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca²⁺-independent manner; these are neuexins, syntaxin and AP2.

References

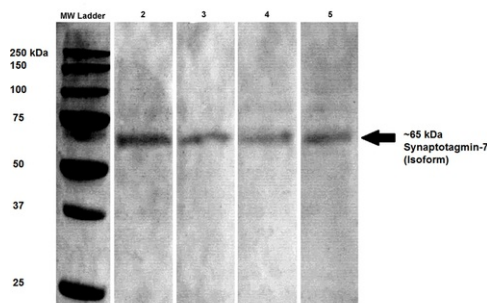
1. Schengrund C.L., et al. (2002) J Biol Chem. 277: 32815.
2. Reichardt L.F., et al. (1981) J Cell Biol. 91:257.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Synaptotagmin-7 Monoclonal Antibody, Clone S275-14 (SMC-424). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Synaptotagmin-7 Monoclonal Antibody (SMC-424) 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: Cytoplasmic Vesicle, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Synaptotagmin-7 Antibody (D) Composite.

Western Blot analysis of Rat brain lysates showing detection of Synaptotagmin 7 protein using Mouse Anti-Synaptotagmin 7 Monoclonal Antibody, Clone S275-14 (SMC-424). Primary Antibody: Mouse Anti-Synaptotagmin 7 Monoclonal Antibody (SMC-424) at 1:100, 1:250, 1:500, and 1:1000.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.