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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-VAMP1/2 Antibody [SP-11]

Mouse Anti-Human VAMP1/2 Monoclonal IgG1
Catalog No. SMC-179



Discovery through partnership | Excellence through quality

Overview

Product Name

VAMP1/2 Antibody

Description

Mouse Anti-Human VAMP1/2 Monoclonal IgG1

Species Reactivity

Human, Rat

Applications

WB, IHC, ELISA

Antibody Dilution

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

Host Species

Mouse

Immunogen Species

Human

Immunogen

Crude human synaptic immunoprecipitate

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

SP-11

Isotype

IgG1

Specificity

Detects ~20-25kDa. Recognizes VAMP 1 and 2.

Cite This Product

Mouse Anti-Human VAMP Monoclonal, Clone SP-11 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-179)

Certificate Of Analysis

1 µg/ml of SMC-179 was sufficient for detection of VAMP in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

SYB1 Antibody, Synaptobrevin Antibody, vesicle associated membrane protein Antibody

Research Areas

Cell Structure, Neuroscience, Pre-Synaptic Markers

Cellular Localization

Cytoplasmic Vesicle, Mitochondrion, Mitochondrion outer membrane

Accession Number

NP_055046.1

Gene ID

6843

Swiss Prot

P23763

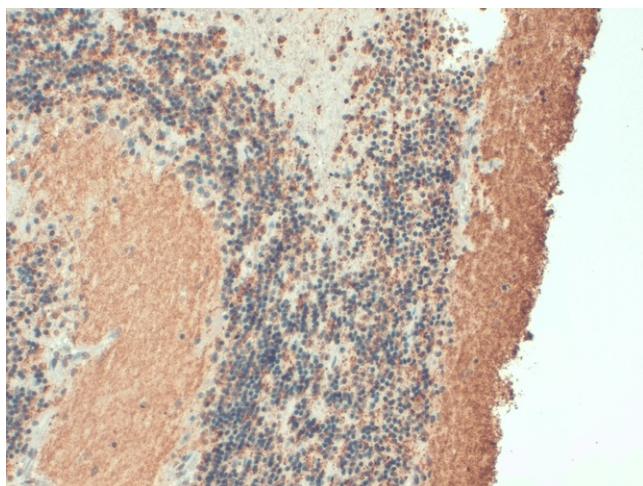
Scientific Background

VAMP-1, also known as vesicle-associated membrane protein, is an 18kDa member of the synaptobrevin family of proteins. It is expressed in neurons, neutrophils, and skeletal muscle cells, and participates in vesicle fusion with the plasma membrane (1). Synaptobrevins, Syntakins and the 25kDa synaptosomal associated SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane (2). VAMP-1 is also one of the key proteins in the SNARE complex which is involved in regulated exocytosis (3).

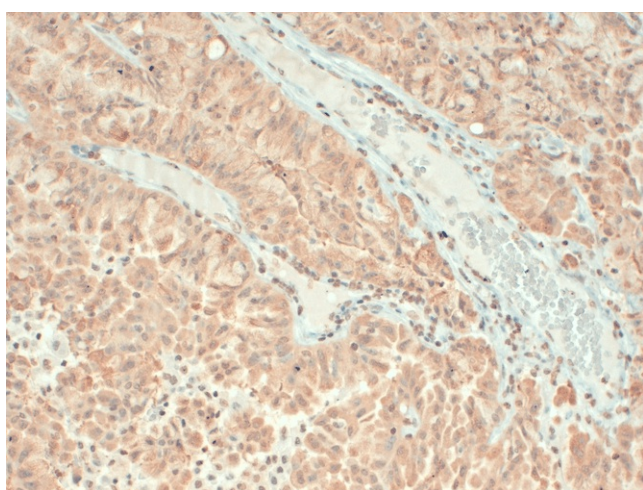
References

1. Trimble W.S., Cowan D.M., and Scheller R.H. (1988) Proc Natl Acad Sci USA. 85: 4538-4542.
 2. Nabokina S.M. (2001) Bulletin of Experimental Bio and Med. 131(2): 130-131.
 3. Berglund L., Hoffman H.J., Dahl R., and Peterson T.E. (1999) Biochem Biophys Research Communicaitons. 264(3): 777-780.
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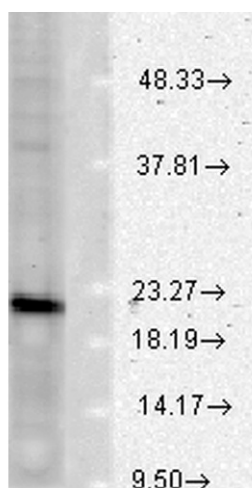
Product Images



Immunohistochemistry analysis using Mouse Anti-VAMP Monoclonal Antibody, Clone SP-11 (SMC-179). Tissue: Cerebellum. Species: Human. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-VAMP Monoclonal Antibody (SMC-179) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 μ l for 5 minutes at RT. Localization: Fibers and Neurons.



Immunohistochemistry analysis using Mouse Anti-VAMP Monoclonal Antibody, Clone SP-11 (SMC-179). Tissue: Brain Slice. Species: Human. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-VAMP Monoclonal Antibody (SMC-179) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 μ l for 5 minutes at RT. Localization: Brain neurons with lack of staining on the blood vessels. Magnification: 20x.



Western Blot analysis of Rat brain lysates showing detection of VAMP protein using Mouse Anti-VAMP Monoclonal Antibody, Clone SP-11 (SMC-179). Load: 15 μ g protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-VAMP Monoclonal Antibody (SMC-179) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.

