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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-SNAT1 Antibody [S104-32]

Mouse Anti-Rat SNAT1 Monoclonal IgG1
Catalog No. SMC-401



Discovery through partnership | Excellence through quality

Overview

Product Name

SNAT1 Antibody

Description

Mouse Anti-Rat SNAT1 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF

Antibody Dilution

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

Host Species

Mouse

Immunogen Species

Rat

Immunogen

Fusion protein amino acids 1- 63 of rat SNAT1

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

S104-32

Isotype

IgG1

Specificity

Detects ~50kDa.

Cite This Product

Mouse Anti-Rat SNAT1 Monoclonal, Clone S104-32 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-401)

Certificate Of Analysis

1 µg/ml of SMC-401 was sufficient for detection of SNAT1 in 20 µg of lysates from neocortical neurons cultured under amino acid starvation conditions and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

SLC38A1 Antibody, amino acids transporter A1 Antibody, ATA1 Antibody, NAT2 Antibody, sodium coupled neutral amino acids transporter 1 Antibody, Amino acid transporter system A1 Antibody, N-system amino acid transporter 2 Antibody, S38A1 Antibody, SAT1 Antibody, SNAT 1 Antibody, Solute carrier family 38 member 1 Antibody, System A amino acid transporter 1 Antibody, System N amino acid transporter 1 Antibody

Research Areas

Cell Signaling, Neuroscience, Neurotransmitter Transporters, Pumps/Transporters, Trafficking

Cellular Localization

Cell membrane

Accession Number

NP_620187.1

Gene ID

170567

Swiss Prot

Q9JM15

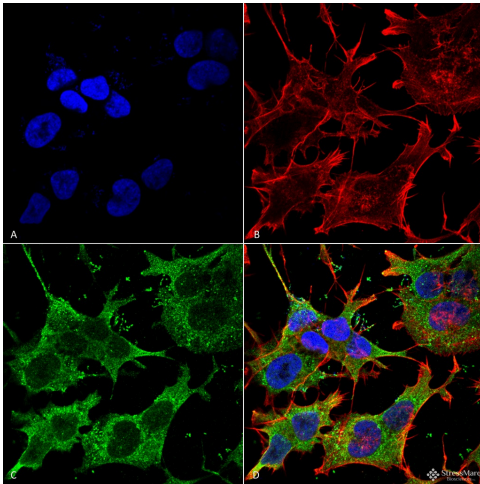
Scientific Background

The sodium-coupled neutral amino acid transporters (SNAT) of the SLC38 gene family include System A subtypes SNAT1, SNAT2 and SNAT4 and System N subtypes SNAT3 and SNAT5. The SLC38 transporters are essential for the uptake of nutrients, energy production, metabolism, detoxification, and the cycling of neurotransmitters. The SNAT1 protein, also designated ATA1 or NAT2 is encoded by the human gene SLC38A1 which maps to chromosome 12q13.11. SNAT1 is responsible for the transport of glutamine, an intermediate in the synthesis of urea, and may be involved in the generation of glutamate in the retina. SNAT1 protein may be detected in some tissues such as heart, brain and placenta and expression levels are enriched in certain neuronal populations within the CNS. SNAT1 is not present in astrocytes.

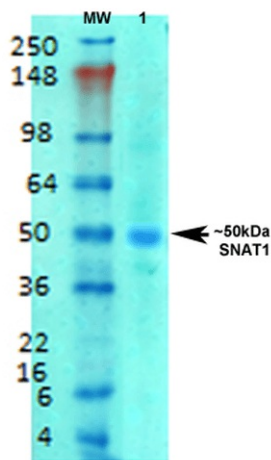
References

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Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SNAT1 Monoclonal Antibody, Clone S104-32 (SMC-401). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-SNAT1 Monoclonal Antibody (SMC-401) 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. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) SNAT1 Antibody (D) Composite.



Western Blot analysis of Rat brain membrane lysate showing detection of SLC38A1 protein using Mouse Anti-SLC38A1 Monoclonal Antibody, Clone S104-32 (SMC-401). Primary Antibody: Mouse Anti-SLC38A1 Monoclonal Antibody (SMC-401) at 1:1000.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.