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anti-SLC38A1 antibody (AA 1-63)

3 Images



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Overview

| Quantity: | 100 μg |
|----------------------|---|
| Target: | SLC38A1 |
| Binding Specificity: | AA 1-63 |
| Reactivity: | Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF) |

Product Details

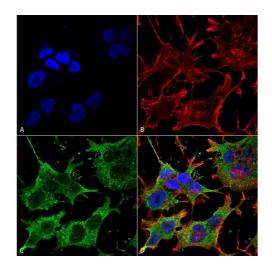
| Immunogen: | Fusion protein amino acids 1- 63 of rat SNAT1 |
|-------------------|---|
| Clone: | S104-32 |
| Isotype: | lgG1 |
| Specificity: | Detects ~50 kDa. |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Protein G Purified |

Target Details

| Target: | SLC38A1 |
|-------------------|----------------------------|
| Alternative Name: | SLC38A1 (SLC38A1 Products) |

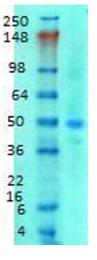
Target Details

| 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. |
| Gene ID: | 170567 |
| NCBI Accession: | NP_620187 |
| UniProt: | Q9JM15 |
| Application Details | |
| Application Notes: | • WB (1:1000) |
| | optimal dilutions for assays should be determined by the user. |
| Comment: | 1 μg/ml of ABIN1027716 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. |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |
| | should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | -20°C |
| | |



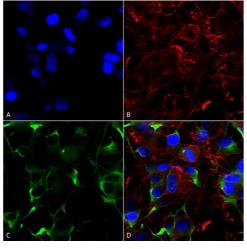
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SNAT1 Monoclonal Antibody, Clone S104-32 (ABIN1027716). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4 % Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-SNAT1 Monoclonal Antibody (ABIN1027716) 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: Cell Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) SNAT1 Antibody. (D) Composite.



Western Blotting

Image 2. Western Blotting rat brain membrane 1 in 1000 SNAT1.



Immunocytochemistry

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SNAT1 Monoclonal Antibody, Clone S104-32 (ABIN1027716). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-SNAT1 Monoclonal Antibody (ABIN1027716) at 1:200 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for

20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) SNAT1 Antibody (D) Composite.