Datasheet for ABIN7043662

# anti-SLC1A3 antibody (2nd Extracellular Loop)

4 Images

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## Overview

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|---|---|
| Quantity: | 25 µL |
| Target: | SLC1A3 |
| Binding Specificity: | 2nd Extracellular Loop, AA 188-200 |
| Reactivity: | Human, Rat, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SLC1A3 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI) |

## Product Details

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| Immunogen: | Immunogen: Synthetic peptide<br>Immunogen Sequence: (C)KQFKTSYEKRSFK, corresponding to amino acids 188-200 of rat EAAT1 |
| Isotype: | IgG |
| Characteristics: | Anti-EAAT1 (GLAST) (extracellular) Antibody (ABIN7043662, ABIN7044352 and ABIN7044353)) is a highly specific antibody directed against an epitope of rat Excitatory amino acid transporter 1. The antibody can be used in western blot, immunohistochemistry and live cell imaging applications. It has been designed to recognize EAAT1 from rat, human and mouse samples. |
| Purification: | Affinity purified on immobilized antigen. |

## Target Details

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| Target: | SLC1A3 |
| Alternative Name: | EAAT1 (GLAST) (SLC1A3 Products) |
| Background: | Alternative names: EAAT1 (GLAST), Excitatory amino acid transporter 1, Sodium-dependent glutamate/aspartate transporter 1, GLAST-1, SLC1A3 |
| Gene ID: | 29483 |
| NCBI Accession: | NM_004172 |
| UniProt: | P24942 |
| Pathways: | Sensory Perception of Sound, Synaptic Membrane, Dicarboxylic Acid Transport |

## Application Details

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions: | For Research Use only |

## Handling

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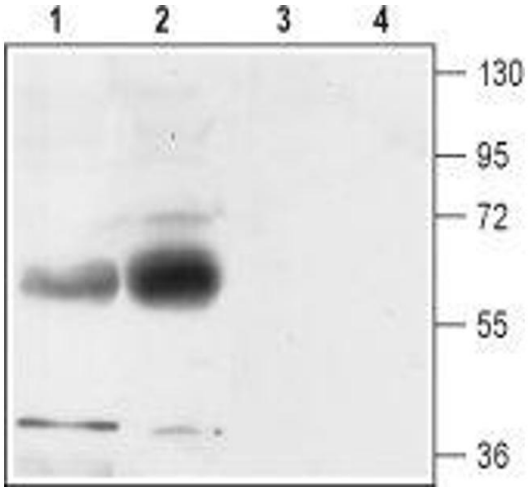
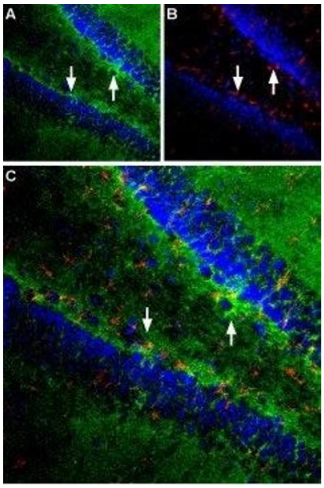
| Format: | Lyophilized |
| Reconstitution: | 25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size. |
| Concentration: | 0.4 mg/mL |
| Buffer: | Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | RT,4 °C,-20 °C |
| Storage Comment: | Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.<br>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min). |



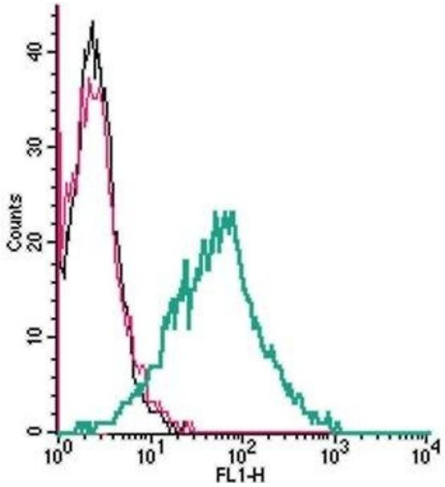

## Western Blotting

**Image 1.** Western blot analysis of rat (lanes 1 and 3) and mouse (lanes 2 and 4) brain membranes: - 1,2. Anti-EAAT1 (GLAST) (extracellular) Antibody (ABIN7043662, ABIN7044352 and ABIN7044353) (1:500).3,4. Anti-EAAT1 (GLAST) (extracellular) Antibody, preincubated with EAAT1/GLAST (extracellular) Blocking Peptide (#BLP-GC021).




## Immunohistochemistry

**Image 2.** Expression of EAAT1 in rat hippocampus - Immunohistochemical staining was performed in perfusion-fixed free floating rat brain sections (frozen) using Anti-EAAT1 (GLAST) (extracellular) Antibody (ABIN7043662, ABIN7044352 and ABIN7044353), (1:100). A. EAAT1 staining (green) is particularly intense along the subgranular layer (arrows). B. Staining with mouse anti glial fibrillary acidic protein (red). C. Merged picture confirms presence of densely packed astrocytes along the subgranular layer. DAPI is used as a general cell marker (blue).




## Flow Cytometry

**Image 3.** Cell surface detection of EAAT1 by indirect flow cytometry in live intact human MEG-01 megakaryocytic leukemia cells: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC.(green line) Cells + Anti-EAAT1 (GLAST) (extracellular) Antibody (ABIN7043662, ABIN7044352 and ABIN7044353), (2.5 µg) + goat-anti-rabbit-FITC.

Please check the product details page for more images. Overall 4 images are available for ABIN7043662.