

Basic Information

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|--------------------|---|------------|
| Product Name | Anti-GLAST/SLC1A3 Antibody | |
| Gene Name | SLC1A3 | |
| Source | Rabbit | |
| Clonality | Polyclonal | |
| Isotype | IgG | |
| Species Reactivity | human, mouse, rat | |
| Tested Application | WB, FCM, ELISA | |
| Contents | 500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol. | |
| Immunogen | E.coli-derived human EAAT1/SLC1A3 recombinant protein (Position: Q34-D506). | |
| Concentration | 500 ug/ml | |
| Purification | Immunogen affinity purified. | |
| Observed MW | 60 kDa | |
| Dilution Ratios | Western blot (WB): | 1:500-2000 |
| | Flow Cytometry (Fixed): | 1:50-200 |
| | Enzyme linked immunosorbent assay (ELISA): | 1:100-1000 |

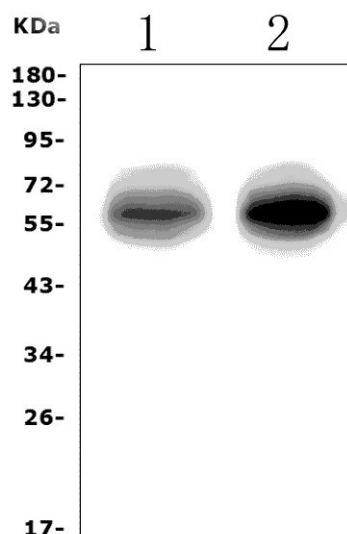
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Excitatory amino acid transporter 1 (EAAT1) is a protein that, in humans, is encoded by the SLC1A3 gene. It is mapped to 5p13.2. This gene encodes a member of a high affinity glutamate transporter family. This gene functions in the termination of excitatory neurotransmission in central nervous system. Mutations are associated with episodic ataxia, Type 6. Alternative splicing results in multiple transcript variants.

Selected Validation Data

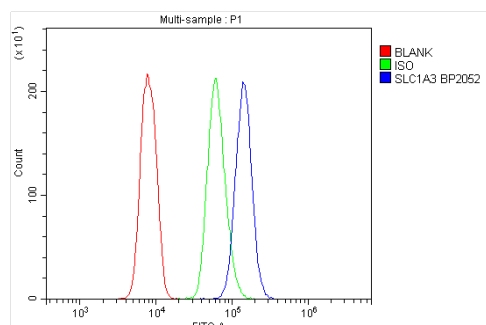


Western blot analysis of GLAST/SLC1A3 using anti-GLAST/SLC1A3 antibody (A02133). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-GLAST/SLC1A3 antigen affinity purified polyclonal antibody (A02133) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GLAST/SLC1A3 at approximately 60 kDa. The expected band size for GLAST/SLC1A3 is at 60 kDa.



Flow Cytometry analysis of U937 cells using anti-GLAST/SLC1A3 antibody (A02133).

Overlay histogram showing U937 cells stained with A02133 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GLAST/SLC1A3 Antibody (A02133) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.