Product Datasheet

EAAT1 Antibody

Catalog No: CY6874 Reactivity: Human Mouse Rat

Isotype: Rabbit IgG Applications: WB IHC

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Information

UniProt ID: P43003

All Names: EA6; EAAT1; Excitatory amino acid transporter 1; GLAST1; Glial high affinity glutamate transporter; glutamate/aspartate transporter, high affinity, sodium-dependent; High affinity neuronal glutamate transporter; Slc1a3; Sodium dependent glutamate/aspartate transporter; Solute carrier family 1 (glial high affinity glutamate transporter) member 3;

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 59 kDa

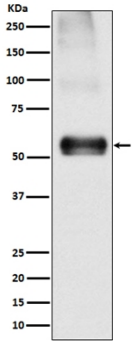
Application

WB 1:500~1:2000

IHC 1:50~1:200

Background

Excitatory amino acid transporters (EAATs) regulate and maintain extracellular glutamate concentrations below excitotoxic levels. In addition, glutamate transporters may limit the duration of synaptic excitation by an electrogenic process in which the transmitter is cotransported with three sodium ions and one proton, followed by countertransport of a potassium ion. The contribution of EAAT1 in neurotransmission is unclear since EAAT2 is much more abundant. However, EAAT1 expression is upregulated by increasing concentrations of glutamate in the media of cultured primary astrocytes, potentially giving this glutamate transporter additional importance. EAAT1 has neuroprotective potential following ischemia since reactive astrocytes and activated microglia express EAAT1 but not EAAT2.



Western blot analysis of EAAT1 expression in Mouse brain lysate.