

EAAT1 Antibody

Rabbit mAb

Catalog # AP91304

Product Information

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| Application | WB, IHC |
| Primary Accession | P43003 |
| Reactivity | Rat, Human, Mouse |
| Clonality | Monoclonal |
| Other Names | EA6; EAAT1; GLAST1; Slc1a3; |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 59572 |

Additional Information

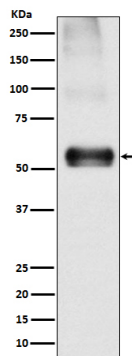
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|-------------------------------------|---|
| Dilution | WB 1:500~1:2000 IHC 1:50~1:200 |
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human EAAT1 |
| Description | EAAT1 has neuroprotective potential following ischemia since reactive astrocytes and activated microglia express EAAT1 but not EAAT2. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

Protein Information

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| Name | SLC1A3 (HGNC:10941) |
| Function | Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed: 20477940 , PubMed: 26690923 , PubMed: 28032905 , PubMed: 28424515 , PubMed: 7521911 , PubMed: 8123008). Functions as a symporter that transports one amino acid molecule together with two or three Na(+) ions and one proton, in parallel with the counter-transport of one K(+) ion (PubMed: 20477940). Mediates Cl(-) flux that is not coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na(+) symport (PubMed: 20477940). Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate (By similarity). |
| Cellular Location | Cell membrane; Multi-pass membrane protein |
| Tissue Location | Detected in brain (PubMed: 7521911 , PubMed: 8123008 , PubMed: 8218410). Detected at very much lower levels in heart, lung, placenta and skeletal muscle (PubMed: 7521911 , PubMed: 8123008). Highly expressed in |

cerebellum, but also found in frontal cortex, hippocampus and basal ganglia (PubMed:7521911).

Images



Western blot analysis of EAAT1 expression in Mouse brain lysate.

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