

## Rabbit EAAT1 Polyclonal Antibody | anti-EAAT1 antibody

EAAT1 Antibody

|                               |                       |                                                                                                  |
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| CATALOG #<br><b>AAA267958</b> | HOST<br><b>Rabbit</b> | APPLICATIONS<br><b>ELISA, Western Blot, Flow Cytometry, Functional Assay, Immunofluorescence</b> |
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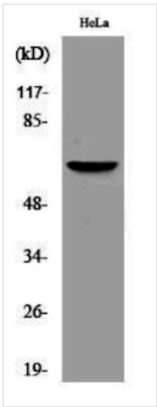
### PRODUCT SYNONYMS

EAAT1; Polyclonal Antibody; EAAT1 Antibody; SLC1A3; GLAST; GLAST1; Excitatory amino acid transporter 1; Sodium-dependent glutamate/aspartate transporter 1; GLAST-1; Solute carrier family 1 member 3; anti-EAAT1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isotype                                         | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Specificity                                     | EAAT1 Polyclonal Antibody detects endogenous levels of EAAT1 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Form/Format                                     | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence Length                                 | 497                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-EAAT1 antibody | ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry), IF (Immunofluorescence)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                       | The antiserum was produced against synthesized peptide derived from human EAAT1. AA range:492-541                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Conjugation                                     | AF488 Conjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Function                                        | disease:Defects in SLC1A3 are the cause of episodic ataxia type 6 (EA6) [MIM:612656]. EA6 is characterized by episodic ataxia, seizures, migraine and alternating hemiplegia.,function:Transports L-glutamate and also L-and D-aspartate. Essential for terminating the postsynaptic action of glutamate by rapidly removing released glutamate from the synaptic cleft. Acts as a symport by cotransporting sodium.,PTM:Glycosylated.,similarity:Belongs to the sodium:dicarboxylate (SDF) symporter (TC 2.A.23) family.,tissue specificity:Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia. |
| Subcellular Location                            | Cell membrane ; Multi-pass membrane protein .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Expression                                      | Detected in brain (PubMed:8218410, PubMed:7521911, PubMed:8123008). 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).                                                                                                                                                                                                                                                                                                                                       |
| Preparation and Storage                         | Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C/1 year. Avoid freeze / thaw cycle. Store In the Dark.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

IMAGES



WB (Western Blot)  
Western Blot analysis of Hela cell lysate using EAAT1 Polyclonal Antibody.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                           |
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| Related Product Information for anti-EAAT1 antibody | Background: This gene encodes a member of 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.[provided by RefSeq, Feb 2014], |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| NCBI GI #                        | 262359914                                     |
| NCBI GeneID                      | 6507                                          |
| NCBI Accession #                 | NP_001160167.1                                |
| NCBI GenBank Nucleotide #        | NM_001166695.2                                |
| UniProt Accession #              | P43003; Q4JCQ8; B2R5T3                        |
| Molecular Weight                 | Observed Band(KD):65kD                        |
| NCBI Official Full Name          | excitatory amino acid transporter 1 isoform 2 |
| NCBI Official Synonym Full Names | solute carrier family 1 member 3              |
| NCBI Official Symbol             | SLC1A3                                        |
| NCBI Official Synonym Symbols    | EA6; EAAT1; GLAST; GLAST1                     |
| NCBI Protein Information         | excitatory amino acid transporter 1           |
| UniProt Protein Name             | Excitatory amino acid transporter 1           |
| UniProt Gene Name                | SLC1A3                                        |
| UniProt Synonym Gene Names       | ; GLAST-1                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.