

# Anti-EAAT3 Antibody

Catalog # ABO11475

## Product Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                                 |
| <b>Primary Accession</b> | <a href="#">P43005</a>                                                                                             |
| <b>Host</b>              | Rabbit                                                                                                             |
| <b>Reactivity</b>        | Human                                                                                                              |
| <b>Clonality</b>         | Polyclonal                                                                                                         |
| <b>Format</b>            | Lyophilized                                                                                                        |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Excitatory amino acid transporter 3(SLC1A1) detection. Tested with WB in Human. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                               |

## Additional Information

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| <b>Other Names</b>              | Excitatory amino acid transporter 3, Excitatory amino-acid carrier 1, Neuronal and epithelial glutamate transporter, Sodium-dependent glutamate/aspartate transporter 3, Solute carrier family 1 member 1, SLC1A1, EAAC1, EAAT3            |
| <b>Calculated MW</b>            | 57100 Da                                                                                                                                                                                                                                   |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human                                                                                                                                                                                                         |
| <b>Subcellular Localization</b> | Cell membrane ; Multi-pass membrane protein. Apical cell membrane ; Multi-pass membrane protein. Membrane; Multi-pass membrane protein.                                                                                                    |
| <b>Tissue Specificity</b>       | Expressed in all tissues tested including liver, muscle, testis, ovary, retinoblastoma cell line, neurons and brain (in which there was dense expression in substantia nigra, red nucleus, hippocampus and in cerebral cortical layers). . |
| <b>Protein Name</b>             | Excitatory amino acid transporter 3                                                                                                                                                                                                        |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> .                                                                                                               |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the N-terminus of human EAAT3(10-27aa EWKRFLKNNWVLLSTVAA).                                                                                                                              |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                                               |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                                                                    |
| <b>Storage</b>                  | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated                                                                               |

freezing and thawing.

## Protein Information

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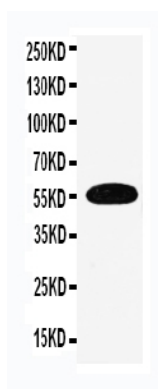
### Background

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Solute carrier family 1 member 1, also called SLC1A1, is a protein that in humans is encoded by the SLC1A1 gene. By Southern analysis of a panel of human/rodent somatic cell hybrids and by fluorescence in situ hybridization(FISH), this gene is mapped to 9p24.2. This gene encodes a member of the high-affinity glutamate transporters that play an essential role in transporting glutamate across plasma membranes. In brain, these transporters are crucial in terminating the postsynaptic action of the neurotransmitter glutamate, and in maintaining extracellular glutamate concentrations below neurotoxic levels. This transporter also transports aspartate, and mutations in this gene are thought to cause dicarboxylicamino aciduria, also known as glutamate-aspartate transport defect.

### Images

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Anti-EAAT3 antibody, ABO11475, Western blottingWB:  
Human Placenta Tissue Lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.