

**Product Name: EAAT3 (4R8) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe10265**

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## Summary

|                        |                                        |
|------------------------|----------------------------------------|
| <b>Production Name</b> | EAAT3 (4R8) Rabbit Monoclonal Antibody |
| <b>Description</b>     | Rabbit Monoclonal Antibody             |
| <b>Host</b>            | Rabbit                                 |
| <b>Application</b>     | WB,IHC-P                               |
| <b>Reactivity</b>      | Human                                  |

## Performance

|                     |                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conjugation</b>  | Unconjugated                                                                                                                                                             |
| <b>Modification</b> | Unmodified                                                                                                                                                               |
| <b>Isotype</b>      | IgG                                                                                                                                                                      |
| <b>Clonality</b>    | Monoclonal                                                                                                                                                               |
| <b>Form</b>         | Liquid                                                                                                                                                                   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.<br>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type |
| <b>Buffer</b>       | preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.<br>Avoid freeze / thaw cycle.                                                       |
| <b>Purification</b> | Affinity purification                                                                                                                                                    |

## Immunogen

|                          |                               |
|--------------------------|-------------------------------|
| <b>Gene Name</b>         | SLC1A1                        |
| <b>Alternative Names</b> | SLC1A1, EAAC1, EAAT3, Eaac-1; |
| <b>Gene ID</b>           | 6505.0                        |
| <b>SwissProt ID</b>      | P43005.                       |

## Application

|                         |                                            |
|-------------------------|--------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:2000-1:20000, IHC-P/IF-P 1:200-1:1000 |
| <b>Molecular Weight</b> | 57kDa                                      |

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## Background

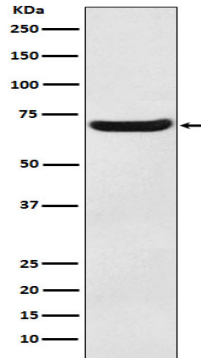
Transports L-glutamate and also L- and D-aspartate. Essential for terminating the postsynaptic action of glutamate by rapidly removing released glutamate from the synaptic cleft. Acts as a symport by cotransporting sodium. Negatively regulated by ARL6IP5. Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed: [7914198](http://www.uniprot.org/citations/7914198), PubMed: [7521911](http://www.uniprot.org/citations/7521911), PubMed: [8857541](http://www.uniprot.org/citations/8857541), PubMed: [26690923](http://www.uniprot.org/citations/26690923), PubMed: [21123949](http://www.uniprot.org/citations/21123949)). Can also transport L-cysteine (PubMed: [21123949](http://www.uniprot.org/citations/21123949)). 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: [7521911](http://www.uniprot.org/citations/7521911), PubMed: [8857541](http://www.uniprot.org/citations/8857541), PubMed: [26690923](http://www.uniprot.org/citations/26690923)). 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: [8857541](http://www.uniprot.org/citations/8857541), PubMed: [26690923](http://www.uniprot.org/citations/26690923)). Plays an important role in L-glutamate and L-aspartate reabsorption in renal tubuli (PubMed: [21123949](http://www.uniprot.org/citations/21123949)). 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). Contributes to glutathione biosynthesis and protection against oxidative stress via its role in L-glutamate and L-cysteine transport (By similarity). Negatively regulated by ARL6IP5 (By similarity).

## Research Area

## Image Data

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Western blot analysis of EAAT3 expression in Human fetal brain lysate.

**Note**

For research use only.