**Product Name: EAAT1 (14Y4) Rabbit Monoclonal Antibody**
**Catalog #: AMRe10263**
For research use only.

## Summary

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|---|---|
| **Description** | Recombinant rabbit monoclonal antibody |
| **Host** | Rabbit |
| **Application** | WB,IHC,ICC/IF |
| **Reactivity** | Human,Mouse,Rat |
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Monoclonal |
| **Form** | Liquid |
| **Concentration** | 0.3mg/ml. The concentration of this product may be batch-dependent. |
| **Storage** | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| **Shipping** | Ice bags |
| **Buffer** | Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein. |
| **Purification** | Affinity purification |

## Application

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|---|---|
| **Dilution Ratio** | WB 1:1000-1:5000,IHC 1:50-1:500,ICC/IF 1:20-1:50 |
| **Molecular Weight** | 60kDa |

## Antigen Information

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|---|---|
| **Gene Name** | SLC1A3 |
| **Alternative Names** | EA6; EAAT1; GLAST1; Slc1a3; |
| **Gene ID** | 6507.0 |
| **SwissProt ID** | P43003 |
| **Immunogen** | A synthetic peptide of human EAAT1 |

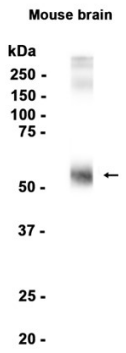
## Background

EAAT1 has neuroprotective potential following ischemia since reactive astrocytes and activated microglia express EAAT1 but not EAAT2. Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-

aspartate and D-aspartate (PubMed:7521911, PubMed:8123008, PubMed:20477940, PubMed:26690923, PubMed:28032905, PubMed:28424515). 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).

## Research Area

## Image Data




Western blot analysis of extracts from Mouse brain tissue using RM5274 at 1:1000.