

# EAAT2 (18V4) Rabbit Monoclonal Antibody

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Catalog # AP93835

## Product Information

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<b>Application</b>	WB, IHC, IP
<b>Primary Accession</b>	<a href="#">P43006</a>
<b>Reactivity</b>	Rat, Mouse
<b>Clonality</b>	Monoclonal
<b>Calculated MW</b>	62030

## Additional Information

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<b>Gene ID</b>	20511
<b>Other Names</b>	Excitatory amino acid transporter 2, GLT-1, Sodium-dependent glutamate/aspartate transporter 2, Solute carrier family 1 member 2, Slc1a2, Eaat2, Glt1
<b>Dilution</b>	WB~~1:1000 IHC~~1:100~500 IP~~N/A
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	Slc1a2
<b>Synonyms</b>	Eaat2, Glt1
<b>Function</b>	Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed: <a href="#">7557442</a> , PubMed: <a href="#">7698742</a> , PubMed: <a href="#">9373176</a> ). 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. Mediates Cl(-) flux that is not coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na(+) symport (By similarity). Essential for the rapid removal of released glutamate from the synaptic cleft, and for terminating the postsynaptic action of glutamate (PubMed: <a href="#">9180080</a> ).
<b>Cellular Location</b>	Cell membrane; Multi-pass membrane protein {ECO:0000250 UniProtKB:P43004}
<b>Tissue Location</b>	Detected in brain (PubMed:9180080). Detected in embryonic forebrain, especially in globus pallidus, perirhinal cortex, lateral hypothalamus, hippocampus, and on fimbria and axonal pathways connecting the neocortex, basal ganglia and thalamus (at protein level) (PubMed:16880397). Isoform

GLT1 is expressed in the brain (PubMed:7557442, PubMed:7698742, PubMed:9180080, PubMed:9373176) Isoforms GLT-1A and GLT-1B are expressed in the liver (PubMed:9373176)

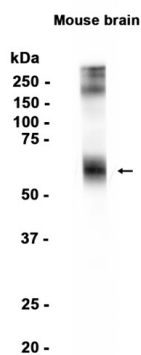
## Background

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Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:7698742, PubMed:7557442, PubMed:9373176). Functions as a symporter that transports one amino acid molecule together with two or three Na<sup>+</sup> ions and one proton, in parallel with the counter-transport of one K<sup>+</sup> ion. Mediates Cl<sup>-</sup> flux that is not coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na<sup>+</sup> symport (By similarity). Essential for the rapid removal of released glutamate from the synaptic cleft, and for terminating the postsynaptic action of glutamate (PubMed:9180080).

## Images

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Western blot analysis of extracts from Mouse brain tissue using AP93835 at 1:1000.

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