

Rabbit EAAT2 Polyclonal Antibody | anti-EAAT2 antibody

EAAT2 Antibody

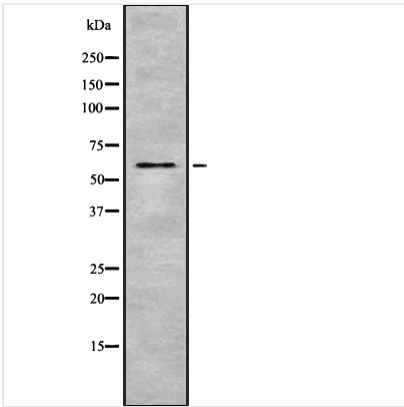
CATALOG # AAA327509	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

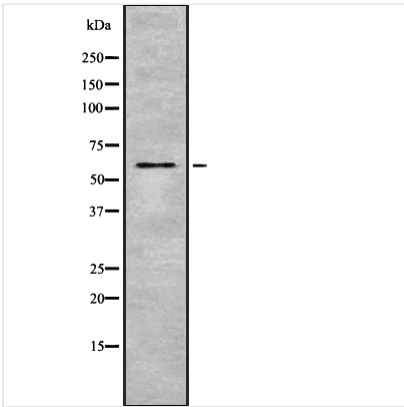
EAAT2; Polyclonal Antibody; EAAT2 Antibody; EAA2_HUMAN; Excitatory amino acid transporter 2; Excitotoxic amino acid transporter 2; Glial high affinity glutamate transporter; GLT 1; GLT1; Glutamate aspartate transporter II; Glutamate transporter 1; Glutamate/aspartate transporter II; Slc1a2; Sodium dependent glutamate aspartate transporter 2; Sodium-dependent glutamate/aspartate transporter 2; solute carrier family 1 (glial high affinity glutamate transporter); member 2; Solute carrier family 1 glial high affinity glutamate transporter member 2; Solute carrier family 1 member 2; anti-EAAT2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EAAT2 antibody detects endogenous levels of total EAAT2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	565
Applicable Applications for anti-EAAT2 antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide derived from human EAAT2
Subcellular Location	Membrane.
Predicted Cross Reactivity	Pig, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of EAAT2 using HT29 whole cell lysates



WB (Western Blot)
Western blot analysis of EAAT2 using HT29 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-EAAT2 antibody	Function: Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:7521911, PubMed:14506254, PubMed:15265858, PubMed:26690923). 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:14506254). 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:14506254). Essential for the rapid removal of released glutamate from the synaptic cleft, and for terminating the postsynaptic action of glutamate (By similarity). Subunit Structure: Homotrimer (PubMed:15265858, PubMed:15483603, PubMed:26483543). Isoform 3 can oligomerize with isoform 1 (PubMed:20688910). Interacts with AJUBA (By similarity). Post-translational Modifications: Glycosylated. Palmitoylation at Cys-38 is not required for correct subcellular localization, but is important for glutamate uptake activity. Similarity: Contains eight transmembrane regions plus two helical hairpins that dip into the membrane. These helical hairpin structures play an important role in the transport process. The first enters the membrane from the cytoplasmic side, the second one from the extracellular side. During the transport cycle, the regions involved in amino acid transport, and especially the helical hairpins, move vertically by about 15-18 Angstroms, alternating between exposure to the aqueous phase and reinsertion in the lipid bilayer. In contrast, the regions involved in trimerization do not move. Belongs to the dicarboxylate/amino acid:cation symporter (DAACS) (TC 2.A.23) family. SLC1A2 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	307746865
NCBI GeneID	6506
NCBI Accession #	NP_001182657.1
NCBI GenBank Nucleotide #	NM_001195728.2
UniProt Accession #	P43004; Q14417; Q541G6; B4DQE9; U3KQQ4
Molecular Weight	Observed: 62 kDa Predicted: 63 kDa
NCBI Official Full Name	excitatory amino acid transporter 2 isoform 2
NCBI Official Synonym Full Names	solute carrier family 1 member 2
NCBI Official Symbol	SLC1A2
NCBI Official Synonym Symbols	HBGT; EAAT2; GLT-1; EIEE41
NCBI Protein Information	excitatory amino acid transporter 2

UniProt Protein Name	Excitatory amino acid transporter 2
UniProt Gene Name	SLC1A2
UniProt Synonym Gene Names	EAAT2; GLT1

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/eaat2-antibody-western-blot-elisa/327509>