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Anti-EAAT2 Antibody

Catalog # AP61485

Product Information

Application	WB, IF/IC
Primary Accession	P43004
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62104

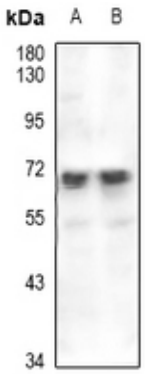
Additional Information

Gene ID	6506
Other Names	EAAT2; GLT1; Excitatory amino acid transporter 2; Glutamate/aspartate transporter II; Sodium-dependent glutamate/aspartate transporter 2; Solute carrier family 1 member 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EAAT2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

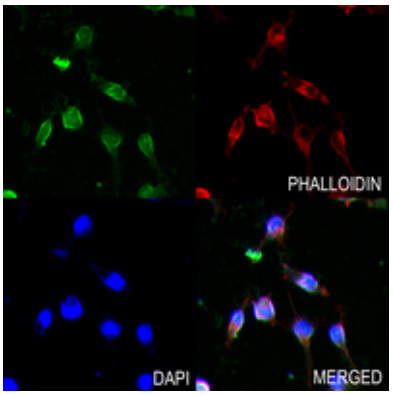
Protein Information

Name	SLC1A2 (HGNC:10940)
Function	Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:14506254, PubMed:15265858, PubMed:26690923, PubMed:7521911). 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).
Cellular Location	Cell membrane; Multi-pass membrane protein

Images



Western blot analysis of EAAT2 expression in rat brain (A), mouse brain (B) whole cell lysates. (Predicted band size: 62 kD; Observed band size: 70 kD)



Immunofluorescent analysis of EAAT2 staining in PC3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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