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Anti-SLC1A3 / EAAT1 Antibody (aa492-541)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17376

Product Information

Application	WB, IHC-P, E
Primary Accession	P43003
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	59572

Additional Information

Gene ID	6507
Alias Symbol	SLC1A3
Other Names	SLC1A3, EA6, EAAT-1, EAAT1, GLAST, GLAST1, GLAST-1, GLUT-1
Target/Specificity	EAAT1 antibody detects endogenous levels of EAAT1.
Reconstitution & Storage	PBS, pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol Store at -20°C.
Precautions	Anti-SLC1A3 / EAAT1 Antibody (aa492-541) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC1A3 (HGNC:10941)
Function	Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:20477940, PubMed:26690923, PubMed:28032905, PubMed:28424515, PubMed:7521911, PubMed:8123008). 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).
Cellular Location	Cell membrane; Multi-pass membrane protein

Tissue Location	Detected in brain (PubMed:7521911, PubMed:8123008, PubMed:8218410). Detected at very much lower levels in heart, lung, placenta and skeletal muscle (PubMed:7521911, PubMed:8123008). Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia (PubMed:7521911).

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