

Immunotag™ EAAT1 Antibody

Antibody Specification	
Catalog No.	ITA8275
Product Description	Immunotag™ EAAT1 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	EAAT1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:1000-3000
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human EAAT1
Specificity	EAAT1 Antibody detects endogenous levels of total EAAT1
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	SLC1A3
Accession No.	P43003
Alternate Names	EA6; EAA1_HUMAN; EAAT1; Excitatory amino acid transporter 1; FLJ25094; GLAST; GLAST-1; GLAST1; Glial high affinity glutamate transporter; glutamate/aspartate transporter, high affinity, sodium-dependent; High affinity neuronal glutamate transporter; Slc1a3; Sodium dependent glutamate/aspartate transporter; Sodium-dependent glutamate/aspartate transporter 1; Solute carrier family 1 (glial high affinity glutamate transporter) member 3; Solute carrier family 1 member 3;

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Description	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 <sup>+</sup> ions and one proton, in parallel with the counter-transport of one K <sup>+</sup> ion (PubMed:20477940). 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 (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).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	59 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.