Best Tools for immunology Research

EAAT1 Polyclonal Antibody

Catalog No :	YT1448
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	EAAT1
Fields :	>>Synaptic vesicle cycle;>>Glutamatergic synapse;>>Huntington disease
Gene Name :	SLC1A3
Protein Name :	Excitatory amino acid transporter 1
Human Gene Id :	6507
Human Swiss Prot No :	P43003
Mouse Swiss Prot No :	P56564
Immunogen :	The antiserum was produced against synthesized peptide derived from human EAAT1. AA range:492-541
Specificity :	EAAT1 Polyclonal Antibody detects endogenous levels of EAAT1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 65kD

Background : This gene encodes a member of a member of a high affinity glutamate transporter family. This gene functions in the termination of excitatory neurotransmission in central nervous system. Mutations are associated with episodic ataxia, Type 6. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Feb 2014],

Function : disease:Defects in SLC1A3 are the cause of episodic ataxia type 6 (EA6) [MIM:612656]. EA6 is characterized by episodic ataxia, seizures, migraine and alternating hemiplegia.,function:Transports L-glutamate and also L- and D-aspartate. Essential for terminating the postsynaptic action of glutamate by rapidly removing released glutamate from the synaptic cleft. Acts as a symport by cotransporting sodium.,PTM:Glycosylated.,similarity:Belongs to the sodium:dicarboxylate (SDF) symporter (TC 2.A.23) family.,tissue specificity:Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia.,

Subcellular Location : Cell membrane ; Multi-pass membrane protein .

Expression : Detected in brain (PubMed:8218410, PubMed:7521911, PubMed:8123008). 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).

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