

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

P43003

P56564

Human Gene Id: 6507

Human Swiss Prot

Idiliali Swiss Fiot

No:

Mouse Swiss Prot

No:

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)

1/2



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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