



EAAT1 Rabbit mAb

Catalog No	YP-rAb-18065
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	SLC1A3
Protein Name	Excitatory amino acid transporter 1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1000; WB 1:500-2000; IF 1:200-1000; ELISA 1:5000-20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	SLC1A3 ; EAAT1 ; GLAST ; GLAST1 ; Excitatory amino acid transporter 1 ; Sodium-dependent glutamate/aspartate transporter 1 ; GLAST-1 ; Solute carrier family 1 member 3
Observed Band	59kD
Calculated Molecular Weight	60kD
Cell Pathway	Cell membrane
Tissue Specificity	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).
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.,





Background

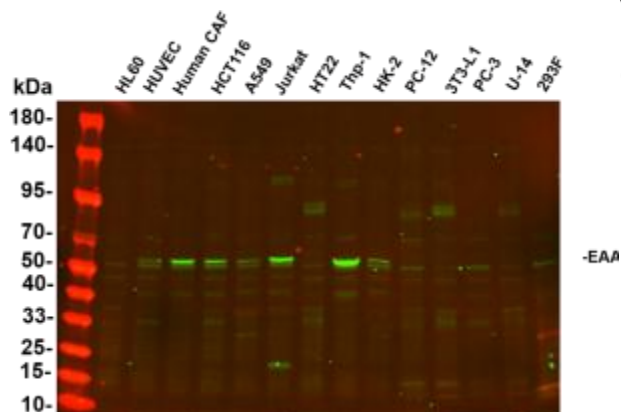
This gene encodes a member of a high affinity glutamate transporter family. This gene functions in the termination of excitatory neurotransmission in central nervous system. Mutations are associated with episodic ataxia, Type 6. Alternative splicing results in multiple transcript variants.[provided by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

matters needing attention

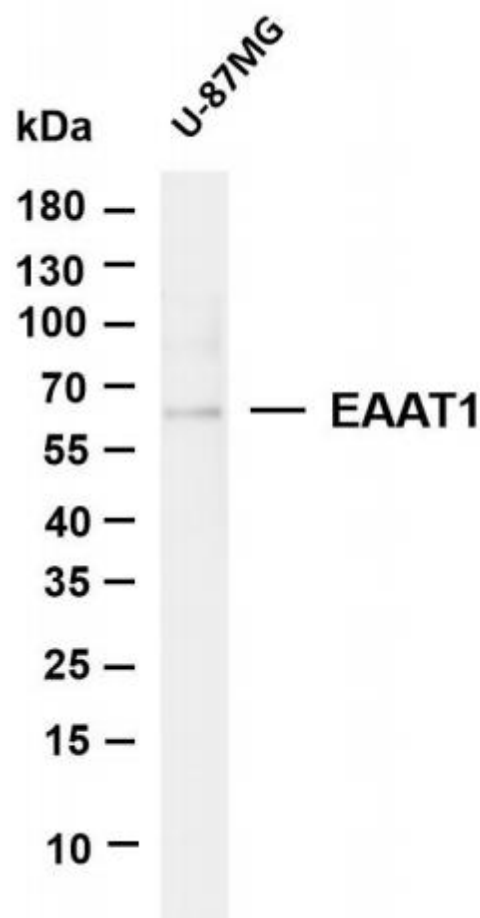
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

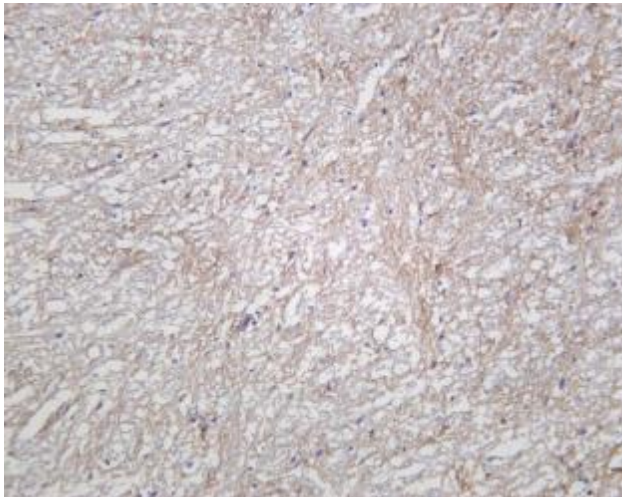


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:2500 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody

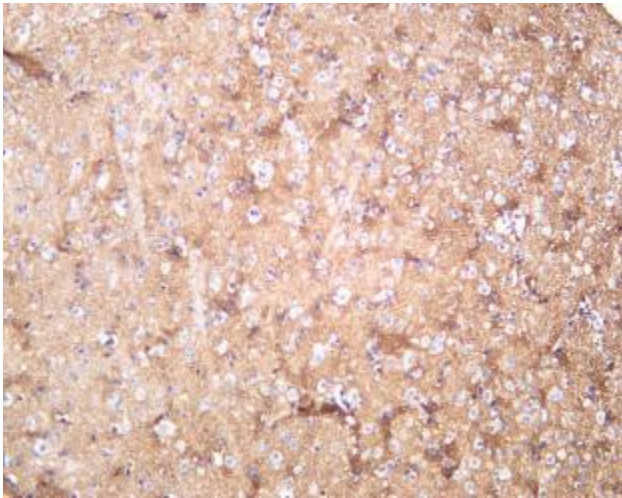


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-EAAT1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: U-87MG Predicted band size: 60kDa Observed band size: 59kDa

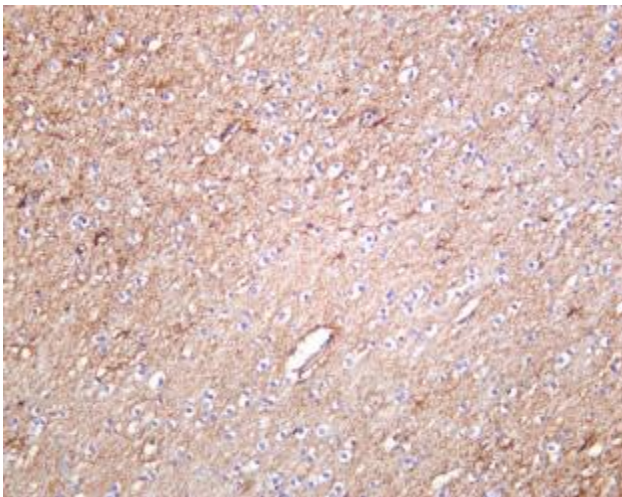




Rat brain was stained with Anti-EAAT1 rabbit antibody



Mouse brain was stained with Anti-EAAT1 rabbit antibody



Human brain was stained with Anti-EAAT1 rabbit antibody

