

Rabbit EAAT1 Polyclonal Antibody | anti-SLC1A3 antibody

Anti-EAAT1 Antibody

CATALOG # AAA46625	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

EAAT1; Polyclonal Antibody; Anti-EAAT1 Antibody; EA6; EAA1; EAAT 1; GLAST; GLAST1; Glast; GLAST-1; SLC1A3; P43003 ; Excitatory amino acid transporter 1; solute carrier family 1 (glial high affinity glutamate transporter); member 3; anti-SLC1A3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized; Contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Applicable Applications for anti-SLC1A3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human EAAT1 (14-42aa RMERFQQGVKRRTLLAKKKVQNITKEDVK), different from the related mouse sequence by three amino acids, and identical to the related rat sequence.
Reconstitution	0.2ml of distilled water will yield a concentration of 500ug/ml
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



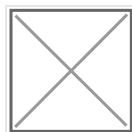
IHC (Immunohistochemistry)

EAAT1 was detected in paraffin-embedded sections of human glioma tissues using rabbit anti- EAAT1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



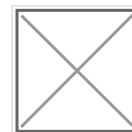
IHC (Immunohistochemistry)

EAAT1 was detected in paraffin-embedded sections of rat brain tissues using rabbit anti- EAAT1 Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)

EAAT1 was detected in paraffin-embedded sections of mouse cerebellum tissues using rabbit anti- EAAT1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of EAAT1 expression in rat brain extract (lane 1) and mouse brain extract (lane 2). EAAT1 at 60KD was detected using rabbit anti-EAAT1 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC1A3 antibody	Solute carrier family 1 (glial high-affinity glutamate transporter), member 3, also known as SLC1A3, EAAT1 or GLAST, is a protein that in humans is encoded by the SLC1A3 gene. This gene is a member of high affinity glutamate transporter family. It is mapped to chromosome 5p13.2 by fluorescence in situ hybridization (FISH). And this gene transports L-glutamate and also L- and D-aspartate. It is essential for terminating the postsynaptic action of glutamate by rapidly removing released glutamate from the synaptic cleft. Furthermore, this gene acts as a symport by cotransporting sodium.
References	1. de Vries, B., Mamsa, H., Stam, A. H., Wan, J., Bakker, S. L. M., Vanmolkot, K. R. J., Haan, J., Terwindt, G. M., Boon, E. M. J., Howard, B. D., Frants, R. R., Baloh, R. W., Ferrari, M. D., Jen, J. C., van den Maagdenberg, A. M. J. M. Episodic ataxia associated with EAAT1 mutation C186S affecting glutamate reuptake. Arch. Neurol. 66: 97-101, 2009. Note: Errata: Arch. Neurol. 66: 497 only, 2009; Arch. Neurol. 66: 772 only, 2009. 2. Matsugami, T. R., Tanemura, K., Mieda, M., Nakatomi, R., Yamada, K., Kondo, T., Ogawa, M., Obata, K., Watanabe, M., Hashikawa, T., Tanaka, K. Indispensability of the glutamate transporters GLAST and GLT1 to brain development. Proc. Nat. Acad. Sci. 103: 12161-12166, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	262359914
NCBI GeneID	6507
NCBI Accession #	NP_001160167.1
NCBI GenBank Nucleotide #	NM_001166695.2
UniProt Accession #	P43003; Q4JCQ8; B2R5T3
NCBI Official Full Name	excitatory amino acid transporter 1 isoform 2
NCBI Official Synonym Full Names	solute carrier family 1 member 3
NCBI Official Symbol	SLC1A3
NCBI Official Synonym Symbols	EA6; EAAT1; GLAST; GLAST1
NCBI Protein Information	excitatory amino acid transporter 1
UniProt Protein Name	Excitatory amino acid transporter 1
UniProt Gene Name	SLC1A3
UniProt Synonym Gene Names	EAAT1; GLAST; GLAST1; GLAST-1
UniProt Entry Name	EAA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.