

SLC1A2 recombinant antibody

SLC1A2 Recombinant Monoclonal Antibody

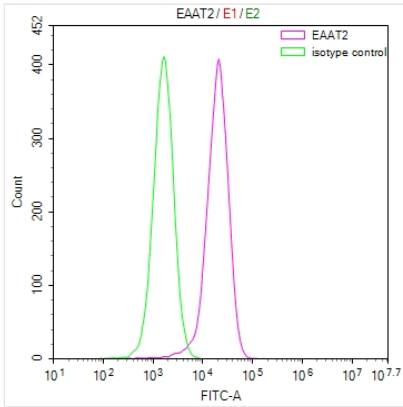
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA279071	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

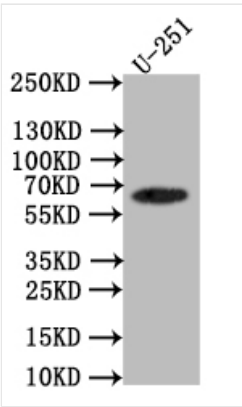
SLC1A2; Monoclonal Recombinant Antibody; SLC1A2 Recombinant Monoclonal Antibody; Excitatory amino acid transporter 2 (Glutamate/aspartate transporter II)(Sodium-dependent glutamate/aspartate transporter 2)(Solute carrier family 1 member 2); EAAT2 GLT1; SLC1A2 recombinant antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	28F9
Purity/Purification	Affinity-chromatography
Form/Format	Liquid; PBS, 150mM NaCl, 0.02% sodium azide, 50% glycerol, pH 7.4.
Applicable Applications for SLC1A2 recombinant antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen Species	Human
Immunogen	A synthesized peptide derived from Human SLC1A2
Conjugation	Non-conjugated
Research Area	Neuroscience; Metabolism; Signal transduction
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.



FCM/FACS (Flow Cytometry)
Overlay Peak curve showing MCF-7 cells stained with AAA279071 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10⁶cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1ug/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.



WB (Western Blot)
Western BlotPositive WB detected in: U251 whole cell lysateAll lanes: EAAT2 antibody at 1:1000SecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 62 kDaObserved band size: 62 kDa

ADDITIONAL INFORMATION

Related Product Information for SLC1A2 recombinant antibody	The SLC1A2 recombinant monoclonal antibody is synthesized in vitro through a systematic process. Initially, SLC1A2 antibody genes are isolated from B cells derived from immunoreactive rabbits. These genes undergo amplification and are cloned into phage vectors, which are subsequently introduced into mammalian cell lines to facilitate the generation of functional antibodies in significant quantities. The resulting SLC1A2 recombinant monoclonal antibody is purified from the culture supernatant of the transfected cell lines through affinity chromatography. It can recognize human SLC1A2 protein in three applications, including ELISA, WB, and FC. SLC1A2, or EAAT2/GLT-1, is a crucial protein responsible for clearing excess glutamate from the synaptic cleft, preventing excitotoxicity, and maintaining proper neurotransmission and brain function. Its role in glutamate transport is fundamental to neuronal health, synaptic plasticity, and the prevention of neurological disorders associated with glutamate dysregulation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	307746865
NCBI GeneID	6506
NCBI Accession #	NP_001182657.1
NCBI GenBank Nucleotide #	NM_001195728.2
UniProt Accession #	P43004; Q14417; Q541G6
NCBI Official Full Name	excitatory amino acid transporter 2 isoform 2
NCBI Official Synonym Full Names	solute carrier family 1 (glial high affinity glutamate transporter), member 2
NCBI Official Symbol	SLC1A2
NCBI Official Synonym Symbols	EAAT2; GLT-1
NCBI Protein Information	excitatory amino acid transporter 2; glutamate/aspartate transporter II; excitotoxic amino acid transporter 2; sodium-dependent glutamate/aspartate transporter 2
UniProt Protein Name	Excitatory amino acid transporter 2
UniProt Gene Name	SLC1A2

UniProt Synonym Gene Names	EAAT2; GLT1
UniProt Entry Name	EAA2_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/slc1a2-recombinant-antibody-clone-28f9-flow-cytometry-western-blot-elisa/279071>