

SLC1A7 (38-51) Antibody (internal region, near N-Term)
Peptide-affinity purified goat antibody
Catalog # AF3690a

Specification

SLC1A7 (38-51) Antibody (internal region, near N-Term) - Product Information

Application	E
Primary Accession	O00341
Other Accession	NP_006662.3 , 6512 , 242607 (mouse)
Predicted	Human, Mouse, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	60658

SLC1A7 (38-51) Antibody (internal region, near N-Term) - Additional Information

Gene ID 6512

Other Names

Excitatory amino acid transporter 5, Retinal glutamate transporter, Solute carrier family 1 member 7, SLC1A7, EAAT5

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SLC1A7 (38-51) Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC1A7 (38-51) Antibody (internal region, near N-Term) - Protein Information

Name SLC1A7 ([HGNC:10945](#))

Synonyms EAAT5

Function

Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D- aspartate. Functions as a symporter that transports one amino acid

molecule together with two or three Na(+) ions and one proton, in parallel with the counter-transport of one K(+) ion (PubMed:9108121). Acts primarily as an inhibitory glutamate-gated chloride channel being a major inhibitory presynaptic receptor at mammalian rod bipolar cell axon terminals. Glutamate binding gates a large Cl(-) conductance that mediates inhibition, affecting visual processing in the retina (By similarity).

Cellular Location

Photoreceptor inner segment membrane {ECO:0000250|UniProtKB:Q8JZR4}; Multi-pass membrane protein. Synaptic cell membrane {ECO:0000250|UniProtKB:Q8JZR4}; Multi-pass membrane protein. Note=Located in both cone and rod photoreceptor terminals and in axon terminals of rod bipolar cells. {ECO:0000250|UniProtKB:Q8JZR4}

Tissue Location

Expressed primarily in retina. Detectable in liver, heart, muscle and brain.

SLC1A7 (38-51) Antibody (internal region, near N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC1A7 (38-51) Antibody (internal region, near N-Term) - Images**SLC1A7 (38-51) Antibody (internal region, near N-Term) - References**

Regulation of the excitatory amino acid transporter EAAT5 by the serum and glucocorticoid dependent kinases SGK1 and SGK3. Boehmer C, Rajamanickam J, Schniepp R, Kohler K, Wulff P, Kuhl D, Palmada M, Lang F. Biochem Biophys Res Commun. 2005 Apr 8;329(2):738-42. PMID: 15737648