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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, Cow**
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

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 Cytomety
- 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