

SLC1A7 / EAAT5 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS16417**Specification**

SLC1A7 / EAAT5 Antibody (C-Terminus) - Product Information

Application	IHC, IF
Primary Accession	O00341
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61kDa KDa

SLC1A7 / EAAT5 Antibody (C-Terminus) - Additional Information**Gene ID** 6512**Other Names**

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

Target/Specificity

SLC1A7 antibody is human and mouse reactive. Multiple isoforms of SLC1A7 are known to exist.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

SLC1A7 / EAAT5 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC1A7 / EAAT5 Antibody (C-Terminus) - 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: <http://www.uniprot.org/citations/9108121> target="_blank">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}

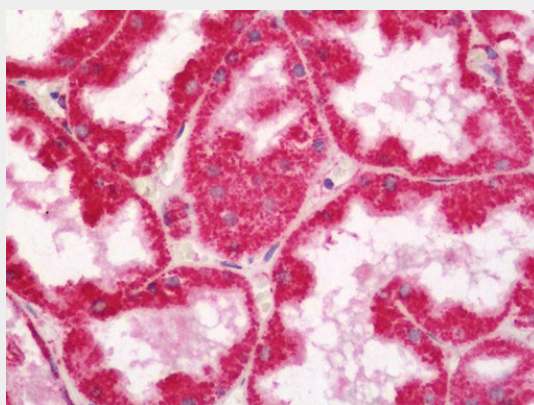
Tissue Location

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

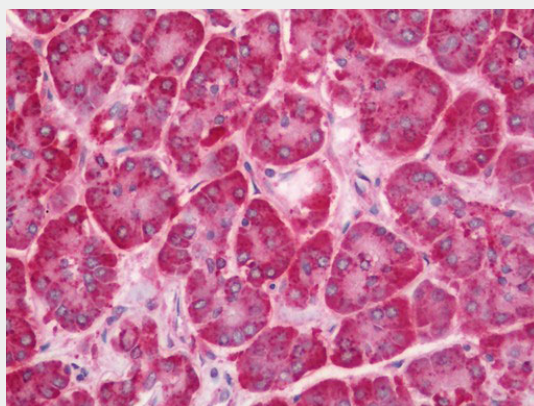
SLC1A7 / EAAT5 Antibody (C-Terminus) - Protocols

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

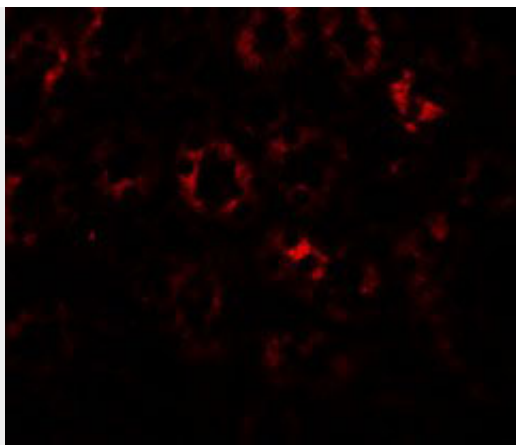
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC1A7 / EAAT5 Antibody (C-Terminus) - Images

Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Pancreas: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of SLC1A7 in mouse kidney tissue with SLC1A7 antibody at 20 ug/ml.

SLC1A7 / EAAT5 Antibody (C-Terminus) - Background

Transports L-glutamate; the L-glutamate uptake is sodium- and voltage-dependent and chloride-independent. Its associated chloride conductance may participate in visual processing.

SLC1A7 / EAAT5 Antibody (C-Terminus) - References

Arriza J.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:4155-4160(1997).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Sjoeblohm T.,et al.Science 314:268-274(2006).