

**SLC1A3 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14593b****Specification**

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**SLC1A3 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P43003](#)**SLC1A3 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 6507

**Other Names**

Excitatory amino acid transporter 1, Sodium-dependent glutamate/aspartate transporter 1, GLAST-1, Solute carrier family 1 member 3, SLC1A3, EAAT1, GLAST, GLAST1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SLC1A3 Antibody (C-term) Blocking Peptide - Protein Information**Name SLC1A3 ([HGNC:10941](#))**Function**

Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:<a href="http://www.uniprot.org/citations/7521911" target="\_blank">7521911</a>, PubMed:<a href="http://www.uniprot.org/citations/8123008" target="\_blank">8123008</a>, PubMed:<a href="http://www.uniprot.org/citations/20477940" target="\_blank">20477940</a>, PubMed:<a href="http://www.uniprot.org/citations/26690923" target="\_blank">26690923</a>, PubMed:<a href="http://www.uniprot.org/citations/28032905" target="\_blank">28032905</a>, PubMed:<a href="http://www.uniprot.org/citations/28424515" target="\_blank">28424515</a>). 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:<a href="http://www.uniprot.org/citations/20477940" target="\_blank">20477940</a>). Mediates Cl(-) flux that is not coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na(+) symport (PubMed:<a href="http://www.uniprot.org/citations/20477940" target="\_blank">20477940</a>). Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Detected in brain (PubMed:8218410, PubMed:7521911, PubMed:8123008). Detected at very much lower levels in heart, lung, placenta and skeletal muscle (PubMed:7521911, PubMed:8123008). Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia (PubMed:7521911).

**SLC1A3 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**SLC1A3 Antibody (C-term) Blocking Peptide - Images****SLC1A3 Antibody (C-term) Blocking Peptide - Background**

This gene encodes a member of a member of a high affinity glutamate transporter family. Mutations in this gene are associated with episodic ataxia, Type 6. Alternative splicing results in multiple transcript variants.

**SLC1A3 Antibody (C-term) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Guilmatre, A., et al. Arch. Gen. Psychiatry 66(9):947-956(2009) Elia, J., et al. Psychiatr. Genet. 19(3):134-141(2009) Sarac, S., et al. APMIS 117(4):291-301(2009)