

**SLC1A6 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16635a****Specification**

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**SLC1A6 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P48664](#)**SLC1A6 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 6511**Other Names**

Excitatory amino acid transporter 4, Sodium-dependent glutamate/aspartate transporter, Solute carrier family 1 member 6, SLC1A6, EAAT4

**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.

**SLC1A6 Antibody (N-term) Blocking Peptide - Protein Information****Name** SLC1A6 ([HGNC:10944](#))**Synonyms** EAAT4**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/7791878" target="\_blank">7791878</a>, PubMed:<a href="http://www.uniprot.org/citations/26690923" target="\_blank">26690923</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. 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/7791878" target="\_blank">7791878</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 (Probable).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Brain, mainly in the cerebellum (PubMed:7791878). Expressed densely and selectively in cell bodies of Purkinje cells

**SLC1A6 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**SLC1A6 Antibody (N-term) Blocking Peptide - Images****SLC1A6 Antibody (N-term) Blocking Peptide - Background**

Transports L-glutamate and also L-and D-aspartate. Seems to act as a symport by cotransporting sodium.

**SLC1A6 Antibody (N-term) Blocking Peptide - References**

Kovermann, P., et al. J. Biol. Chem. 285(31):23676-23686(2010)Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :Gratacos, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (6), 808-816 (2009) :Need, A.C., et al. Eur. J. Hum. Genet. 17(7):946-957(2009)Rajamanickam, J., et al. J. Neurochem. 102(3):858-866(2007)