10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC1A6 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP16635a

Specification

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:7791878, PubMed:26690923). 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:7791878). 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)