

SLC6A1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP19005a

Specification

SLC6A1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P30531](#)

SLC6A1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 6529

Other Names

Sodium- and chloride-dependent GABA transporter 1, GAT-1, Solute carrier family 6 member 1, SLC6A1, GABATR, GABT1, GAT1

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.

SLC6A1 Antibody (N-term) Blocking Peptide - Protein Information

Name SLC6A1

Synonyms GABATR, GABT1, GAT1

Function

Mediates transport of gamma-aminobutyric acid (GABA) together with sodium and chloride and is responsible for the reuptake of GABA from the synapse (PubMed:30132828). The translocation of GABA, however, may also occur in the reverse direction leading to the release of GABA (By similarity). The direction and magnitude of GABA transport is a consequence of the prevailing thermodynamic conditions, determined by membrane potential and the intracellular and extracellular concentrations of Na(+), Cl(-) and GABA (By similarity). Can also mediate sodium- and chloride-dependent transport of hypotaurine but to a much lower extent as compared to GABA (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P23978}; Multi-pass membrane protein. Presynapse {ECO:0000250|UniProtKB:P31648}. Note=Localized at the presynaptic terminals of interneurons. {ECO:0000250|UniProtKB:P31648}

SLC6A1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC6A1 Antibody (N-term) Blocking Peptide - Images

SLC6A1 Antibody (N-term) Blocking Peptide - Background

The SLC6A1 gene encodes a gamma-aminobutyric acid (GABA)transporter, which removes GABA from the synaptic cleft (Hirunsatit et al., 2009 [PubMed 19077666]).

SLC6A1 Antibody (N-term) Blocking Peptide - References

Yao, M., et al. J. Neurosci. 30(11):4062-4071(2010)Gonzalez-Burgos, G. Adv. Pharmacol. 58, 175-204 (2010) :Matthews, E. Jr., et al. Neurochem. Int. 55(8):732-740(2009)Gratacos, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (6), 808-816 (2009) :Ben-Yona, A., et al. J. Biol. Chem. 284(15):9727-9732(2009)