

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

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**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:<a href="http://www.uniprot.org/citations/30132828" target="\_blank">30132828</a>). 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)