

SLC6A17 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13508b**Specification**

SLC6A17 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q9H1V8](#)**SLC6A17 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 388662**Other Names**

Sodium-dependent neutral amino acid transporter SLC6A17, Sodium-dependent neurotransmitter transporter NTT4, Solute carrier family 6 member 17, SLC6A17, NTT4

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13508b was selected from the C-term region of SLC6A17. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SLC6A17 Antibody (C-term) Blocking peptide - Protein Information**Name** SLC6A17 {ECO:0000250|UniProtKB:P31662, ECO:0000312|HGNC:HGNC:31399}**Function**

Synaptic vesicle transporter with apparent selectivity for neutral amino acids. The transport is sodium-coupled but chloride- independent, likely driven by the proton electrochemical gradient generated by vacuolar H(+)-ATPase in an overall electrogenic mechanism. May contribute to the synaptic uptake of neurotransmitter precursors in a process coupled in part to vesicle exocytosis.

Cellular Location

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:P31662}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P31662}. Postsynapse {ECO:0000250|UniProtKB:Q8BJI1}. Presynapse {ECO:0000250|UniProtKB:Q8BJI1}. Note=Localizes at synaptic junctions - at both pre- and post-synaptic sites - particularly in excitatory glutamatergic terminals. {ECO:0000250|UniProtKB:Q8BJI1}

SLC6A17 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SLC6A17 Antibody (C-term) Blocking peptide - Images

SLC6A17 Antibody (C-term) Blocking peptide - Background

The SLC6 family of proteins, which includes SLC6A17, acts as specific transporters for neurotransmitters, amino acids, and osmolytes like betaine, taurine, and creatine. SLC6 proteins are sodium cotransporters that derive the energy for solute transport from the electrochemical gradient for sodium ions (Hoglund et al., 2005 [PubMed 16125675]).

SLC6A17 Antibody (C-term) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) ; Zaia, K.A., et al. J. Biol. Chem. 284(13):8439-8448(2009) Hoglund, P.J., et al. Biochem. Biophys. Res. Commun. 336(1):175-189(2005)