

SLC6A20 Antibody (C-term) Blocking peptide

Synthetic peptide

Catalog # BP13608b

Specification

SLC6A20 Antibody (C-term) Blocking peptide - Product Information

Primary Accession

[O9NP91](#)**SLC6A20 Antibody (C-term) Blocking peptide - Additional Information**

Gene ID 54716

Other Names

Sodium- and chloride-dependent transporter XTRP3, Sodium/imino-acid transporter 1, Solute carrier family 6 member 20, Transporter rB21A homolog, SLC6A20, SIT1, XT3, XTRP3

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13608b was selected from the C-term region of SLC6A20. 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.

SLC6A20 Antibody (C-term) Blocking peptide - Protein InformationName SLC6A20 ([HGNC:30927](#))**Function**

Mediates the Na(+)- and Cl(-)-dependent uptake of imino acids such as L-proline, N-methyl-L-proline and pipercolate as well as N- methylated amino acids (PubMed: [15632147](http://www.uniprot.org/citations/15632147), PubMed: [19033659](http://www.uniprot.org/citations/19033659), PubMed: [33428810](http://www.uniprot.org/citations/33428810)). Also transports glycine, regulates proline and glycine homeostasis in the brain playing a role in the modulation of NMDAR currents (PubMed: [33428810](http://www.uniprot.org/citations/33428810)).

Cellular Location

Apical cell membrane {ECO:0000250|UniProtKB:Q8VDB9}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8VDB9}. Note=Located in the apical brush border membrane of kidney

proximal tubule cells and in the apical membrane of enterocytes lining the intestinal villi
{ECO:0000250|UniProtKB:Q8VDB9}

Tissue Location

Kidney and small intestine. Expressed in the S3 segment of the proximal tubule. Expressed in neurons (PubMed:33428810)

SLC6A20 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SLC6A20 Antibody (C-term) Blocking peptide - Images**SLC6A20 Antibody (C-term) Blocking peptide - Background**

Transport of small hydrophilic substances across cell membranes is mediated by substrate-specific transporter proteins which have been classified into several families of related genes. The protein encoded by this gene is a member of the subgroup of transporter with unidentified substrates within the Na⁺ and Cl⁻-coupled transporter family. This gene is expressed in kidney, and its alternative splicing generates 2 transcript variants. [provided by RefSeq].

SLC6A20 Antibody (C-term) Blocking peptide - References

Broer, A., et al. Mol. Membr. Biol. 26(5):333-346(2009) Broer, S. Physiol. Rev. 88(1):249-286(2008) Takanaga, H., et al. J. Biol. Chem. 280(10):8974-8984(2005) Kanei-Ishii, C., et al. J. Biol. Chem. 279(43):44582-44589(2004) Kiss, H., et al. Genomics 73(1):10-19(2001)