

SLC38A4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17074b**Specification**

SLC38A4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q969I6](#)**SLC38A4 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 55089

Other Names

Sodium-coupled neutral amino acid transporter 4, Amino acid transporter A3, Na(+)-coupled neutral amino acid transporter 4, Solute carrier family 38 member 4, System A amino acid transporter 3, System N amino acid transporter 3, SLC38A4, ATA3, NAT3, SNAT4

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.

SLC38A4 Antibody (C-term) Blocking Peptide - Protein InformationName SLC38A4 ([HGNC:14679](#))**Function**

Symporter that cotransports neutral amino acids and sodium ions from the extracellular to the intracellular side of the cell membrane (PubMed:11342143, PubMed:19015196, PubMed:33928121). The transport is electrogenic, pH dependent and partially tolerates substitution of Na(+) by Li(+) (PubMed:11414754). Preferentially transports smaller amino acids, such as glycine, L-alanine, L-serine, L-asparagine and L-threonine, followed by L-cysteine, L-histidine, L-proline and L-glutamine and L-methionine (PubMed:11414754, PubMed:33928121).

Cellular Location

Cell membrane; Multi-pass membrane protein. Cell projection, microvillus membrane; Multi-pass membrane protein Note=Microvillus membrane localization in placenta

Tissue Location

Expressed almost exclusively in embryonic and adult liver, and at lower levels in the kidney (PubMed:11342143, PubMed:11414754). Expressed at lower levels in adult muscle and pancreas (PubMed:11414754). Detected in fetal blood vessels (PubMed:16148032). Expressed in syncytiotrophoblasts of placenta during first trimester and at term (PubMed:19015196, PubMed:16148032). Highly expressed in first trimester placenta compared to term placenta (PubMed:19015196).

SLC38A4 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC38A4 Antibody (C-term) Blocking Peptide - Images**SLC38A4 Antibody (C-term) Blocking Peptide - Background**

SLC38A4 is found predominantly in liver and transports both cationic and neutral amino acids. The transport of cationic amino acids by SLC38A4 is Na(+) and pH independent, while the transport of neutral amino acids is Na(+) and pH dependent (Hatanaka et al., 2001 [PubMed 11342143]).

SLC38A4 Antibody (C-term) Blocking Peptide - References

Desforges, M., et al. J. Physiol. (Lond.) 587 (PT 1), 61-72 (2009) ; Iruloh, C.G., et al. Pediatr. Res. 65(1):51-56(2009) Broer, S. Physiol. Rev. 88(1):249-286(2008) Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006) Desforges, M., et al. Am. J. Physiol., Cell Physiol. 290 (1), C305-C312 (2006) :