

SLC30A10 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP19293b**Specification**

SLC30A10 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q6XR72](#)**SLC30A10 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 55532

Other Names

Zinc transporter 10, ZnT-10, Solute carrier family 30 member 10, SLC30A10, ZNT10, ZNT8

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.

SLC30A10 Antibody (C-term) Blocking Peptide - Protein InformationName SLC30A10 ([HGNC:25355](#))**Function**

Calcium:manganese antiporter of the plasma membrane mediating the efflux of intracellular manganese coupled to an active extracellular calcium exchange (PubMed: [30755481](http://www.uniprot.org/citations/30755481)). Required for intracellular manganese homeostasis, an essential cation for the function of several enzymes, including some crucially important for the metabolism of neurotransmitters and other neuronal metabolic pathways. Manganese can also be cytotoxic and induce oxidative stress, mitochondrial dysfunction and apoptosis (PubMed: [22341972](http://www.uniprot.org/citations/22341972), PubMed: [25319704](http://www.uniprot.org/citations/25319704), PubMed: [26728129](http://www.uniprot.org/citations/26728129), PubMed: [27226609](http://www.uniprot.org/citations/27226609), PubMed: [27307044](http://www.uniprot.org/citations/27307044)). Could also have an intracellular zinc ion transporter activity, directly regulating intracellular zinc ion homeostasis and more indirectly various signaling pathway and biological processes (PubMed: [22427991](http://www.uniprot.org/citations/22427991), PubMed: [26728129](http://www.uniprot.org/citations/26728129)).

Cellular Location

Cell membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Recycling endosome membrane. Early endosome membrane; Multi-pass membrane protein. Note=Localization to the Golgi and plasma membrane is regulated by zinc.

Tissue Location

Specifically expressed in fetal liver and fetal brain (PubMed:15154973). Expressed in adult tissues with relative levels small intestine > liver > testes > brain > ovary > colon > cervix > prostate > placenta (PubMed:22706290). Expressed in liver and neurons of the nervous system (at protein level) (PubMed:22341971)

SLC30A10 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC30A10 Antibody (C-term) Blocking Peptide - Images**SLC30A10 Antibody (C-term) Blocking Peptide - Background**

Zinc functions as a cofactor for numerous enzymes, nuclear factors, and hormones and as an intra- and intercellular signal. Members of the zinc transporter (ZNT)/SLC30 subfamily of the cation diffusion facilitator family, such as SLC30A10, permit cellular efflux of zinc (Seve et al., 2004 [PubMed:15154973]).

SLC30A10 Antibody (C-term) Blocking Peptide - References

Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008) Seve, M., et al. BMC Genomics 5 (1), 32 (2004) :