

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

Specification

SLC30A10 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession

<u>Q6XR72</u>

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 Information

Name SLC30A10 (<u>HGNC:25355</u>)

Function

Calcium:manganese antiporter of the plasma membrane mediating the efflux of intracellular manganese coupled to an active extracellular calcium exchange (PubMed: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, PubMed:25319704, PubMed:26728129, PubMed:27226609, PubMed: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, PubMed: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, nuclearfactors, and hormones and as an intraand intercellular signalion. Members of the zinc transporter (ZNT)/SLC30 subfamily of thecation diffusion facilitator family, such as SLC30A10, permitcellular efflux of zinc (Seve et al., 2004 [PubMed15154973]).

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) :