

SLC39A4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9552a**Specification**

SLC39A4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q6P5W5](#)**SLC39A4 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 55630

Other Names

Zinc transporter ZIP4, Solute carrier family 39 member 4, Zrt- and Irt-like protein 4, ZIP-4, SLC39A4, ZIP4

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.

SLC39A4 Antibody (C-term) Blocking Peptide - Protein InformationName SLC39A4 ([HGNC:17129](#))

Synonyms ZIP4

Function

Selective transporter that mediates the uptake of Zn(2+) (PubMed:17202136, PubMed:22242765, PubMed:27321477, PubMed:28875161, PubMed:31164399, PubMed:31914589, PubMed:31979155, PubMed:33837739, PubMed:36473915). Plays an essential role for dietary zinc uptake from small intestine (By similarity). The Zn(2+) uniporter activity is regulated by zinc availability (PubMed:32348750, PubMed:17202136). Exhibits also polyspecific binding and transport of Cu(2+), Cd(2+) and possibly Ni(2+) but at higher

concentrations (PubMed:22242765, PubMed:31914589).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:A0A0H3LM39}. Recycling endosome membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:A0A0H3LM39}. Apical cell membrane {ECO:0000250|UniProtKB:Q78IQ7}; Multi-pass membrane protein {ECO:0000250|UniProtKB:A0A0H3LM39}. Note=Colocalized with TFRC in the recycling endosomes. Cycles between endosomal compartments and the plasma membrane in response to Zn(2+) availability. Zn(2+) deficiency promotes accumulation of SLC39A4 on the surface membrane, whereas high extracellular Zn(2+) levels induce internalization of SLC39A4, but also trigger drastic removal of cellular SLC39A4 via proteasomal and lysosomal degradation pathways. {ECO:0000250|UniProtKB:Q78IQ7, ECO:0000269|PubMed:17202136, ECO:0000269|PubMed:32348750}

Tissue Location

Highly expressed in kidney, small intestine, stomach, colon, jejunum and duodenum.

SLC39A4 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC39A4 Antibody (C-term) Blocking Peptide - Images

SLC39A4 Antibody (C-term) Blocking Peptide - Background

SLC39A4 is a member of the zinc/iron-regulated transporter-like protein (ZIP) family. The transmembrane protein is required for zinc uptake in the intestine.

SLC39A4 Antibody (C-term) Blocking Peptide - References

??i, M., et al. Clin. Cancer Res. 15(19):5993-6001(2009)??akano, H., et al. Br. J. Dermatol. 161(1):184-186(2009)??ardi, A., et al. Br. J. Dermatol. 160(6):1346-1348(2009)??chmitt, S., et al. Hum. Mutat. 30(6):926-933(2009)??averakis, E., et al. Dermatol. Online J. 13 (3), 11 (2007) :