

SLC39A7 Antibody(Center) Blocking Peptide
Synthetic peptide
Catalog # BP16569c**Specification**

SLC39A7 Antibody(Center) Blocking Peptide - Product InformationPrimary Accession [Q92504](#)**SLC39A7 Antibody(Center) Blocking Peptide - Additional Information****Gene ID** 7922**Other Names**

Zinc transporter SLC39A7, Histidine-rich membrane protein Ke4, Really interesting new gene 5 protein, Solute carrier family 39 member 7, Zrt-, Irt-like protein 7, ZIP7, SLC39A7, HKE4, RING5

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.

SLC39A7 Antibody(Center) Blocking Peptide - Protein Information**Name** SLC39A7**Synonyms** HKE4 {ECO:0000303|PubMed:14525538}, RING**Function**

Transports Zn(2+) from the endoplasmic reticulum (ER)/Golgi apparatus to the cytosol, playing an essential role in the regulation of cytosolic zinc levels (PubMed:14525538, PubMed:15705588, PubMed:29980658, PubMed:28205653). Acts as a gatekeeper of zinc release from intracellular stores, requiring post-translational activation by phosphorylation, resulting in activation of multiple downstream pathways leading to cell growth and proliferation (PubMed:29980658, PubMed:22317921, PubMed:28205653). Has an essential role in B cell development and is required for proper B cell receptor signaling (PubMed:30718914). Plays an important role in maintaining intestinal epithelial homeostasis and skin dermis development by regulating ER function (By similarity). Controls cell

signaling pathways involved in glucose metabolism in skeletal muscle (By similarity). Has a protective role against ER stress in different biological contexts (PubMed:29980658, PubMed:30237509). Mediates Zn(2+)-induced ferroptosis (PubMed:33608508).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus, cis-Golgi network membrane; Multi-pass membrane protein

Tissue Location

Widely expressed.

SLC39A7 Antibody(Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC39A7 Antibody(Center) Blocking Peptide - Images**SLC39A7 Antibody(Center) Blocking Peptide - Background**

Zinc is an essential cofactor for more than 50 classes of enzymes. It is involved in protein, nucleic acid, carbohydrate, and lipid metabolism, as well as in the control of gene transcription, growth, development, and differentiation. Zinc cannot passively diffuse across cell membranes and requires specific transporters, such as SLC39A7, to enter the cytosol from both the extracellular environment and from intracellular storage compartments.[supplied by OMIM].

SLC39A7 Antibody(Center) Blocking Peptide - References

Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16(10):770-777(2010) Bailey, S.D., et al. Diabetes Care (2010) In press :Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) :