

SLC40A1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17042b**Specification**

SLC40A1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9NP59](#)**SLC40A1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 30061**Other Names**

Solute carrier family 40 member 1, Ferroportin-1, Iron-regulated transporter 1, SLC40A1, FPN1, IREG1, SLC11A3

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.

SLC40A1 Antibody (C-term) Blocking Peptide - Protein Information**Name** SLC40A1**Function**

Transports Fe(2+) from the inside of a cell to the outside of the cell, playing a key role for maintaining systemic iron homeostasis (PubMed:15692071, PubMed:24304836, PubMed:22178646, PubMed:29599243, PubMed:30247984, PubMed:22682227, PubMed:29237594). Transports iron from intestinal, splenic, hepatic cells, macrophages and erythrocytes into the blood to provide iron to other tissues (By similarity). Controls therefore dietary iron uptake, iron recycling by macrophages and erythrocytes, and release of iron stores in hepatocytes (By similarity). When iron is in excess in serum, circulating HAMP/hepcidin levels increase resulting in a degradation of SLC40A1, thus limiting the iron efflux to plasma (PubMed:22682227, PubMed:29237594, PubMed:32814342).

Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein. Note=Localized to the basolateral membrane of hepatocytoma WIF-B cells.

Tissue Location

Detected in erythrocytes (at protein level) (PubMed:23219802). Expressed in placenta, intestine, muscle and spleen (PubMed:10747949). Highly expressed in mature red blood (PubMed:29599243).

SLC40A1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC40A1 Antibody (C-term) Blocking Peptide - Images**SLC40A1 Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene is a cell membraneprotein that may be involved in iron export from duodenalepithelial cells. Defects in this gene are a cause ofhemochromatosis type 4 (HFE4).

SLC40A1 Antibody (C-term) Blocking Peptide - References

Valenti, L., et al. J. Hepatol. 53(5):927-933(2010)Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16(10):770-777(2010)Kasvosve, I., et al. Clin. Chim. Acta 411 (17-18), 1248-1252 (2010) :Saja, K., et al. Br. J. Haematol. 149(6):914-916(2010)Nunez, M.T., et al. Am. J. Physiol., Cell Physiol. 298 (3), C477-C485 (2010) :