

SLC40A1 / Ferroportin-1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11961**Specification****SLC40A1 / Ferroportin-1 Antibody (N-Terminus) - Product Information**

Application	WB, IHC-P, E
Primary Accession	Q9NP59
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

SLC40A1 / Ferroportin-1 Antibody (N-Terminus) - Additional Information**Gene ID** 30061**Other Names**

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

Target/Specificity

synthetic peptide corresponding to N-terminal residues of human MTP1 (Metal transporter protein 1)

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

SLC40A1 / Ferroportin-1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC40A1 / Ferroportin-1 Antibody (N-Terminus) - Protein Information**Name** SLC40A1 ([HGNC:10909](#))**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:22178646, PubMed:22682227, PubMed:24304836, PubMed:29237594, PubMed:29599243, PubMed:<a

[30247984](http://www.uniprot.org/citations/30247984)). 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](http://www.uniprot.org/citations/22682227), PubMed:[29237594](http://www.uniprot.org/citations/29237594), PubMed:[32814342](http://www.uniprot.org/citations/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

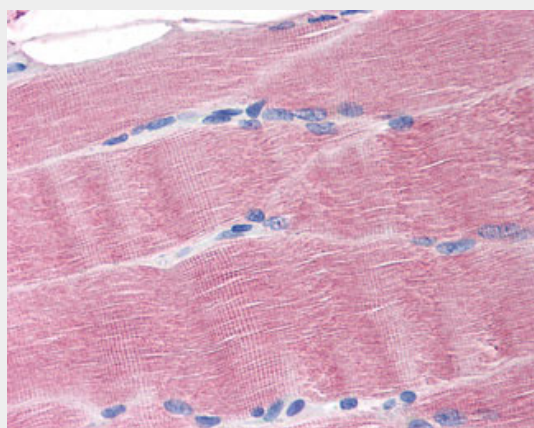
Detected in erythrocytes (at protein level) (PubMed:23219802). Expressed in placenta, intestine, muscle and spleen (PubMed:10747949). Highly expressed in mature red blood (PubMed:29599243).

SLC40A1 / Ferroportin-1 Antibody (N-Terminus) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC40A1 / Ferroportin-1 Antibody (N-Terminus) - Images



Anti-SLC40A1 antibody IHC of human skeletal muscle.

SLC40A1 / Ferroportin-1 Antibody (N-Terminus) - Background

May be involved in iron export from duodenal epithelial cell and also in transfer of iron between maternal and fetal circulation. Mediates iron efflux in the presence of a ferroxidase (hephaestin and/or ceruloplasmin).

SLC40A1 / Ferroportin-1 Antibody (N-Terminus) - References

Abboud S.,et al.J. Biol. Chem. 275:19906-19912(2000).
McKie A.T.,et al.Mol. Cell 5:299-309(2000).
Donovan A.,et al.Nature 403:776-781(2000).
Wiemann S.,et al.Genome Res. 11:422-435(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).