

Goat Anti-SLC40A1 Antibody (internal region)
Purified Goat Polyclonal Antibody
Catalog # AF4222a**Specification**

Goat Anti-SLC40A1 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	O9NP59
Other Accession	NP_055400.1
Reactivity	Human
Predicted	Human, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5
Calculated MW	62542

Goat Anti-SLC40A1 Antibody (internal region) - Additional Information**Gene ID** 30061**Other Names**

SLC40A1; solute carrier family 40 (iron-regulated transporter), member 1; FPN1; HFE4; IREG1; MST079; MTP1; SLC11A3; iron regulated gene 1; putative ferroportin 1 variant IIIB; solute carrier family 11 (proton-coupled divalent metal ion transporters), member 3; solute carrier family 40 member 1

Dilution

WB~~1:1000

E~~N/A

Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Immunogen

Peptide with sequence C-ELKQLNLHKDTEPKP, from the internal region of the protein sequence according to NP_055400.1.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-SLC40A1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SLC40A1 Antibody (internal region) - 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: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, 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

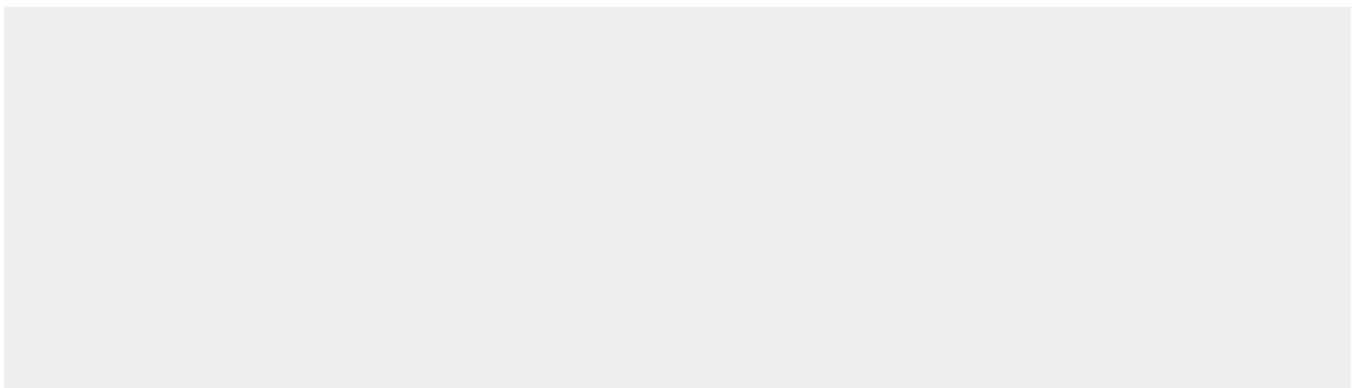
Detected in erythrocytes (at protein level) (PubMed:23219802). Expressed in placenta, intestine, muscle and spleen (PubMed:10747949). Highly expressed in mature red blood (PubMed:29599243).

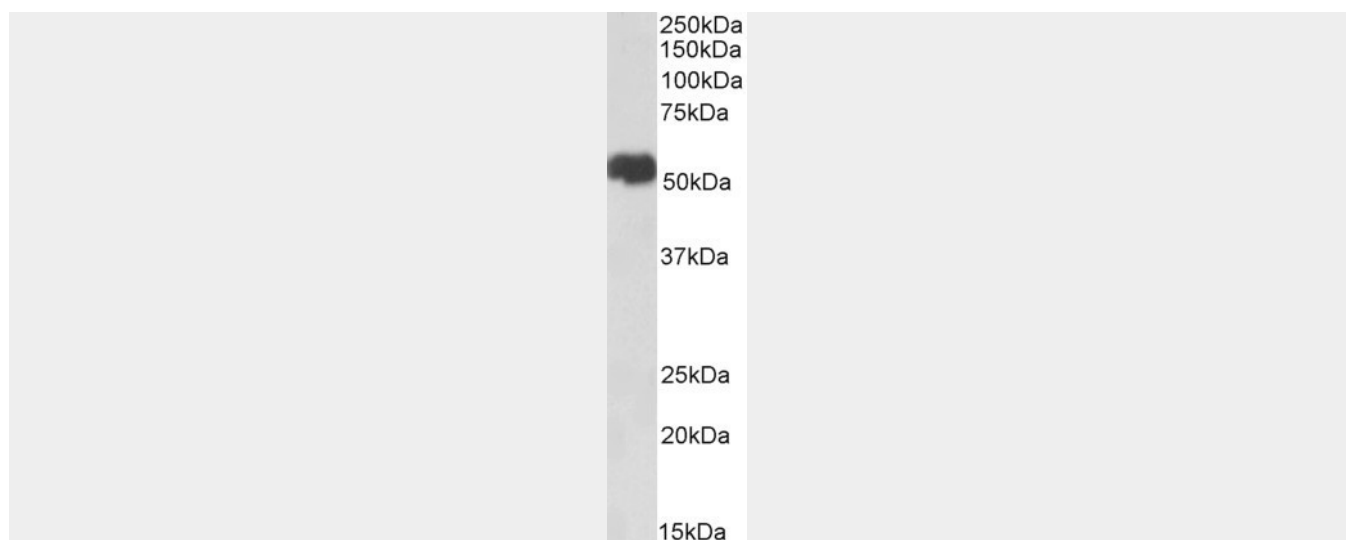
Goat Anti-SLC40A1 Antibody (internal region) - Protocols

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](#)

Goat Anti-SLC40A1 Antibody (internal region) - Images





AF4222a (1 μ g/ml) staining of Breast cancer lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-SLC40A1 Antibody (internal region) - References

Hepcidin-induced endocytosis of ferroportin is dependent on ferroportin ubiquitination. Qiao B, Sugianto P, Fung E, Del-Castillo-Rueda A, Moran-Jimenez MJ, Ganz T, Nemeth E. Cell metabolism 2012 Jun 15 (6): 918-24.