

SLC39A4 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2852a**Specification**

SLC39A4 Antibody (internal region) - Product Information

Application	E
Primary Accession	Q6P5W5
Other Accession	NP_060237.2 , NP_570901.2 , 55630
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	68408

SLC39A4 Antibody (internal region) - 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

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

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

SLC39A4 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC39A4 Antibody (internal region) - Protein Information**Name** 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:17202136, PubMed:32348750). Also exhibits 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 (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](#)

SLC39A4 Antibody (internal region) - Images

SLC39A4 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_060237.2; NP_570901.2)

SLC39A4 Antibody (internal region) - References

Aberrant expression of zinc transporter ZIP4 (SLC39A4) significantly contributes to human pancreatic cancer pathogenesis and progression. Li M, Zhang Y, Liu Z, Bharadwaj U, Wang H, Wang X, Zhang S, Liuzzi JP, Chang SM, Cousins RJ, Fisher WE, Brunicardi FC, Logsdon CD, Chen C, Yao Q.

Proc Natl Acad Sci U S A. 2007 Nov 20;104(47):18636-41. PMID: 18003899