

**SLC39A5 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57679****Specification**

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**SLC39A5 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC
Primary Accession	<a href="#">Q6ZMH5</a>
Reactivity	Rat, Cat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56461

**SLC39A5 Polyclonal Antibody - Additional Information****Gene ID** 283375**Other Names**

Zinc transporter ZIP5, Solute carrier family 39 member 5, Zrt- and Irt-like protein 5, ZIP-5, SLC39A5, ZIP5

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**SLC39A5 Polyclonal Antibody - Protein Information****Name** SLC39A5 ([HGNC:20502](#))**Function**

Uniporter that transports zinc(2+) into polarized cells of enterocytes, pancreatic acinar and endoderm cells across the basolateral membrane and participates, notably, in zinc excretion from the intestine by the uptake of zinc from the blood into the intestine (By similarity). The transport mechanism is temperature- and concentration-dependent and saturable (By similarity). In addition, is also a high affinity copper transporter in vitro (PubMed:<a href="http://www.uniprot.org/citations/36454509" target="\_blank">36454509</a>). Also may regulate glucose-stimulated insulin secretion (GSIS) in islets primarily through the zinc-activated SIRT1-PPARGC1A axis (By similarity). Could regulate the BMP/TGF-beta (bone morphogenetic protein/transforming growth factor-beta) signaling pathway and modulates extracellular matrix (ECM) proteins of the sclera (PubMed:<a href="http://www.uniprot.org/citations/24891338" target="\_blank">24891338</a>). Plays a role in eye development (PubMed:<a href="http://www.uniprot.org/citations/24891338" target="\_blank">24891338</a>).

**Cellular Location**

Basolateral cell membrane {ECO:0000250|UniProtKB:Q9D856}; Multi-pass membrane protein

{ECO:0000250|UniProtKB:Q9D856}. Note=Localized to the basolateral surfaces of enterocytes, pancreatic acinar and endoderm cells. During zinc deficiency diet, the basolateral cell membrane localization is lost in the intestine, the visceral yolk sac and acinar cell. During zinc repletion, is relocalized to the basolateral membrane of enterocytes, visceral endoderm cells and pancreatic acinar cells. Zinc can regulate the turnover of protein at the membrane. During zinc deficiency, is internalized and degraded in enterocytes, acinar cells and endoderm cells. Endocytosed through the endolysosomal degradation pathway RAB5A pathway. {ECO:0000250|UniProtKB:Q9D856}

**Tissue Location**

Expressed in liver, kidney, pancreas, small intestine, colon, spleen, fetal liver and fetal kidney

**SLC39A5 Polyclonal Antibody - 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](#)

**SLC39A5 Polyclonal Antibody - Images**