

ZIP4 Polyclonal Antibody
Catalog # AP73132**Specification****ZIP4 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	Q6P5W5
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

ZIP4 Polyclonal Antibody - Additional Information**Gene ID** 55630**Other Names**

SLC39A4; ZIP4; Zinc transporter ZIP4; Solute carrier family 39 member 4; Zrt- and Irt-like protein 4; ZIP-4

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

ZIP4 Polyclonal Antibody - 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:17202136, PubMed:17202136).

<http://www.uniprot.org/citations/32348750> target="_blank">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

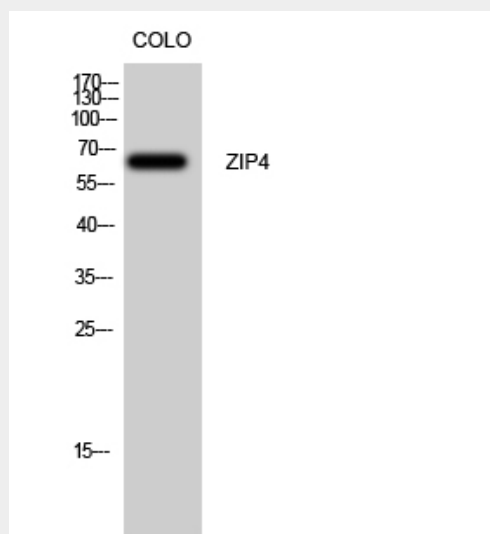
Highly expressed in kidney, small intestine, stomach, colon, jejunum and duodenum.

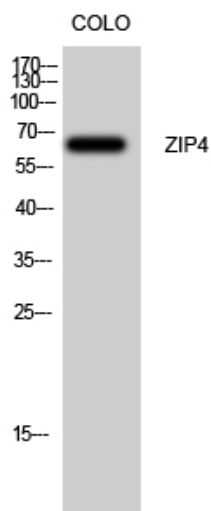
ZIP4 Polyclonal Antibody - Protocols

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](#)

ZIP4 Polyclonal Antibody - Images





ZIP4 Polyclonal Antibody - Background

Plays an important role in cellular zinc homeostasis as a zinc transporter. Regulated in response to zinc availability (By similarity).