For Research Use Only

SLC39A5 Polyclonal antibody

Catalog Number:17285-1-AP 1 Publications

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Basic Information

Catalog Number:
17285-1-AP

Size:
150ul , Concentration: 400 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG11067

GenBank Accession Number:
BC027884

GeneID (NCBI):
283375

UNIPROT ID:
Q6ZMH5

Full Name:
solute carrier family 39 (metal ion transporter), member 5

Calculated MW:
539 aa, 56 kDa

Observed MW:
70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Positive Controls:

WB : mouse kidney tissue, mouse liver tissue, mouse pancreas tissue, rat kidney tissue, rat liver tissue, rat pancreas tissue

Background Information

SLC39A5 (Zip5) belongs to the ZIP family of metal ion transporters which function to transport zinc and/or other metal ion substrates from the extracellular space or organellar lumen into the cytoplasm. Most of ZIP members have eight predicted transmembrane domains and similar predicted topologies with the N- and C-termini of the protein located on the extracytoplasmic face of the membrane. Zip5 is a zinc uptake transporter that is specific for Zn(II) over other potential metal ion substrates. ZIP5 gene is most actively expressed in tissues involved in zinc homeostasis (intestine, visceral endoderm, pancreas) but is not induced during zinc deficiency. ZIP5 is localized to the basolateral surface of these cells under zinc-replete conditions but is internalized during periods of dietary zinc deficiency. These observations suggest that Zip5 plays a central role in controlling organismal zinc status. This antibody was generated against the N-terminal region of human SLC39A5 and is predicted to detect the endogenous level of SLC39A5 protein. The calculated molecular weight of SLC39A5 is 56 kDa. With glycosylation modification, the molecular weight of SLC39A5 will be migrated to 70 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Peng Wang	36290187	Animals (Basel)	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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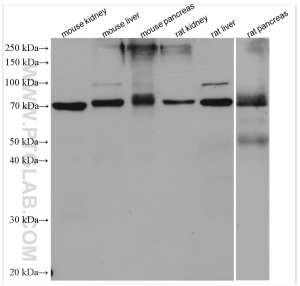
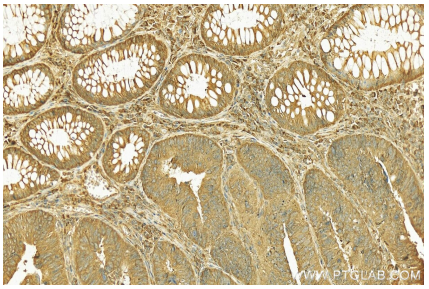
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17285-1-AP (SLC39A5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded Colorectal cancer slide using 17285-1-AP (SLC39A5 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).