



ZIP4 Monoclonal Antibody

Catalog No	YP-mAb-04274
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SLC39A4
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC39A4. AA range:431-480
Specificity	ZIP4 Monoclonal Antibody detects endogenous levels of ZIP4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SLC39A4;ZIP 4;AEZ;ZIP-4;Zrt- and Irt-like protein 4;ZIP4;Zinc transporter ZIP4; Solute carrier family 39 member 4
Observed Band	68kD
Calculated Molecular Weight	68kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Recycling endosome membrane ; Multi-pass membrane protein . Colocalized with TFRC in the recycling endosomes. Cycles between endosomal compartments and the plasma membrane in response to zinc availability.
Tissue Specificity	Highly expressed in kidney, small intestine, stomach, colon, jejunum and duodenum.
Function	disease:Defects in SLC39A4 are the cause of acrodermatitis enteropathica zinc-deficiency type (AEZ) [MIM:201100]. AEZ is a rare autosomal recessive disease caused by the inability to absorb sufficient zinc. The clinicals features are growth retardation, immune system dysfunction, alopecia, severe dermatitis, diarrhea and occasionally mental disorders. All these manifestations are reversible with zinc supplementation. Without zinc therapy this disease is fatal.,function:Plays an important role in cellular zinc homeostasis as a zinc transporter. Regulated in response to zinc availability.,similarity:Belongs to the ZIP transporter (TC 2.A.5)



family.,subcellular location:Colocalized with TFRC in the recycling endosomes. Cycles between endosomal compartments and the plasma membrane in response to zinc availability.,tissue specificity:Highly expressed in kidney, small intestine, stomach, colon

Background

This gene encodes a member of the zinc/iron-regulated transporter-like protein (ZIP) family. The encoded protein localizes to cell membranes and is required for zinc uptake in the intestine. Mutations in this gene result in acrodermatitis enteropathica. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013],

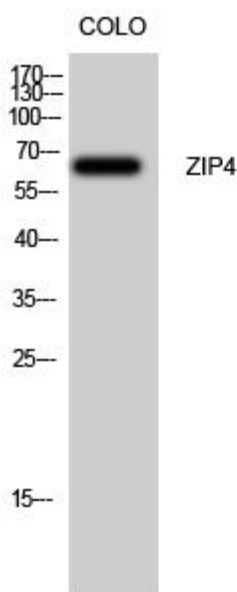
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using ZIP4 Monoclonal Antibody