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Datasheet for ABIN6991461
anti-SLC39A14 antibody (AA 230-280)

Overview

Quantity:	0.1 mg
Target:	SLC39A14
Binding Specificity:	AA 230-280
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC39A14 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	ZIP14 antibody was raised against a 16 amino acid synthetic peptide near the center of human ZIP14. The immunogen is located within amino acids 230 - 280 of ZIP14.
Isotype:	IgG
Specificity:	At least three isoforms of ZIP14 are known to exist, this antibody will detect both isoforms. ZIP14 antibody is predicted to not cross-react with other ZIP family members.
Purification:	ZIP14 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	SLC39A14
Alternative Name:	ZIP14 (SLC39A14 Products)

Target Details

Background:	ZIP14 Antibody: The zinc transporter ZIP14, also known as SLC39A14, is a member of a family of divalent ion transporters. Zinc is an essential ion for cells and plays significant roles in the growth, development, and differentiation. The zinc transporter family is divided into four subfamilies (I, II, LIV-1 and gnfA). ZIP14 is a glycosylated multipass plasma membrane protein that belongs to the ZIP transporter subfamily LIV-1. ZIP14 has been shown to contribute to the hypozincemia of inflammation and infection and is regulated in the liver by IL-6. In addition to zinc, ZIP14 is also involved in the cellular uptake of non-transferrin-bound iron as well as iron bound to transferrin.
Molecular Weight:	Predicted: 54 kDa Observed: 52 kDa
Gene ID:	23516
NCBI Accession:	NP_001128625
UniProt:	Q15043
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	ZIP14 antibody can be used for detection of ZIP14 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in human samples, Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	ZIP14 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: ZIP14 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.