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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-ZIP14 SLC39A14 Antibody

Catalog Number: A04761

About SLC39A14

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 gufA). 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.

Overview

Product Name	Anti-ZIP14 SLC39A14 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ZIP14 SLC39A14 Antibody (Catalog # A04761). Tested in ELISA, WB, IHC-P applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC-P, WB
Clonality	Polyclonal
Formulation	ZIP14 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	ZIP14 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q15043

Technical 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.
Predicted Reactive Species	Bovine
Cross Reactivity	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.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	ZIP14 Antibody is affinity chromatography purified via peptide column.

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Suggested Dilutions	WB: 1-4 ug/mL; IHC-P: 1-2 ug/mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunohistochemistry in human, mouse, and rat samples. All other applications and species not yet tested.

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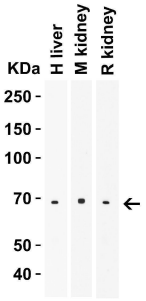
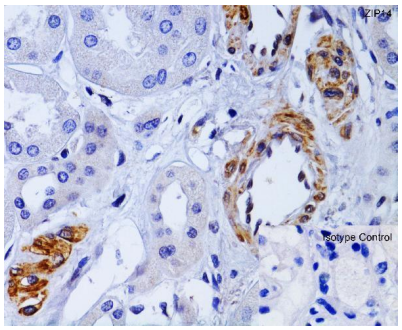
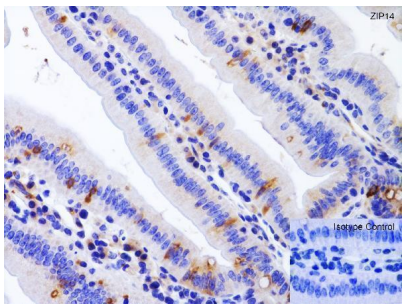
Anti-ZIP14 SLC39A14 Antibody (A04761) Images



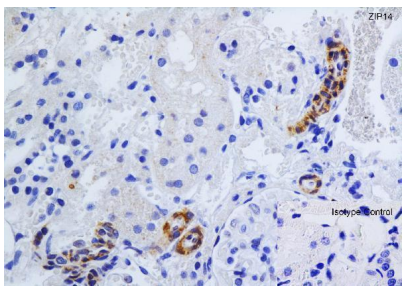
WB Validation in Human, Mouse and Rat Tissues Loading: 10 ug of lysate Antibodies: ZIP14, A04761, 2 u g/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry Validation of ZIP14 in Human Kidney Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ZIP14 antibody (A04761) at 1 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry Validation of ZIP14 in Mouse Colon Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-ZIP14 antibody (A04761) at 1 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry Validation of ZIP14 in Rat Kideny Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-ZIP14 antibody (A04761) at 2 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

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