

Anti-ZIP7 SLC39A7 Antibody

Catalog Number: A07719-2

About SLC39A7

The zinc transporter ZIP7, also known as SLC39A7, 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. ZIP7 was initially identified while characterizing genes in the major histocompatibility complex on chromosome 17. ZIP7 mRNA is abundantly and widely expressed and the protein localizes to the Golgi apparatus. It functions to transport intracellular zinc from the Golgi apparatus to the cytoplasm of the cell. ZIP7 expression is expressed by zinc. ZIP7 has been suggested to act a hub for tyrosine kinase activation and may thus be a potential therapeutic target for diseases such as cancer where prevention of tyrosine kinase activation would be advantageous.

Overview

Product Name	Anti-ZIP7 SLC39A7 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ZIP7 SLC39A7 Antibody (Catalog # A07719-2). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	ZIP7 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	ZIP7 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	Q92504

Technical Details

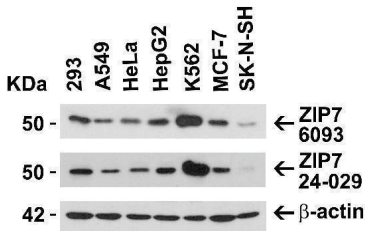
Immunogen	Anti-ZIP7 antibody was raised against a peptide corresponding to 17 amino acids near the amino terminus of human ZIP7. The immunogen is located within amino acids 20-70 of ZIP7.
Predicted Reactive Species	Bovine
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	ZIP7 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

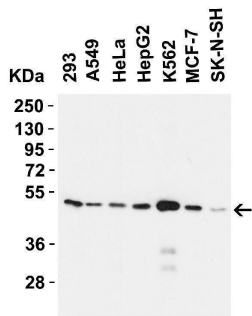
WB: 0.5-1 ug/mL; IHC: 2.5 ug/mL; IF: 20 ug/mL.

Antibody validated: Western Blot in human, mouse and rat samples; Immunohistochemistry in human samples; Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

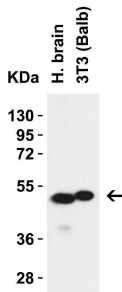
Anti-ZIP7 SLC39A7 Antibody (A07719-2) Images



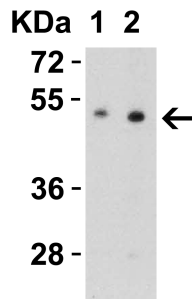
Independent Antibody Validation (IAV) via Protein Expression Profile in Human Cell Lines Loading: 15 ug of lysates per lane. Antibodies: ZIP7, A07719-2 (1 ug/mL), ZIP7, 24-029 (4 ug/mL), and beta-actin (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



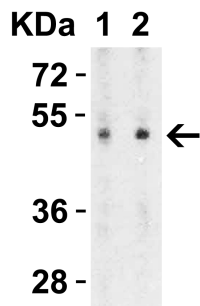
Western Blot Validation in Human Cell Lines Loading: 15 ug of lysates per lane. Antibodies: ZIP7, A07719-2 (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



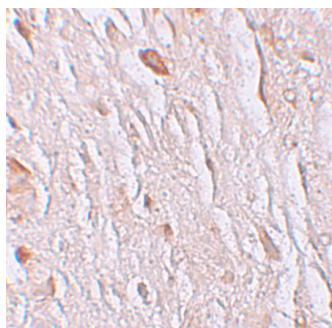
Western Blot Validation in Human Brain Tissue and 3T3 (Balb) Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: ZIP7, A07719-2 (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



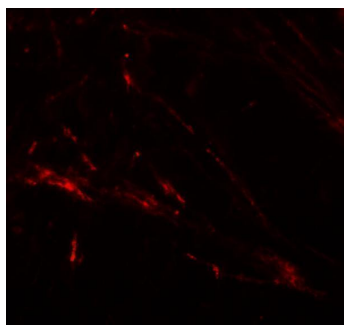
Western Blot Validation in Mouse Brain Tissue Lysate Loading: 15 ug of lysates per lane. Antibodies: ZIP7, A07719-2 (Lane 1: 0.5 ug/mL and Lane 2: 1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Rat Brain Tissue Lysate Loading: 15 ug of lysates per lane. Antibodies: ZIP7, A07719-2 (Lane 1: 0.5 ug/mL and Lane 2: 1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry Validation of ZIP7 in Human Brain Tissue
Immunohistochemical analysis of paraffin-embedded human brain tissue using anti-ZIP7 antibody (A07719-2) at 2.5 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.



Immunofluorescence Validation of ZIP7 in Human Brain Tissue
Immunofluorescent analysis of 4% paraformaldehyde-fixed human brain tissue labeling ZIP7 with A07719-2 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

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