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Datasheet for 600-401-GE7

ZIP2 Antibody

Overview

Description:	Anti-ZIP2 (RABBIT) Antibody - 600-401-GE7
Item No.:	600-401-GE7
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The zinc transporter ZIP2, also known as SLC39A2, 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. Similar to knock-outs of ZIP1 and ZIP3, ZIP2-null mice have no phenotypic differences compared to wild-type mice. Only when ZIP1, ZIP2, and ZIP3 genes are all eliminated and these mutant mice are fed a zinc-deficient diet do abnormalities such as reduced embryonic-membrane bound alkaline phosphatase activity and abnormal development occur, indicating that the ZIP1-3 proteins play an important, noncompensatory role when zinc is deficient. More recent studies have shown that ZIP2 and ZIP3 are down regulated in human prostate adenocarcinomatous glands, and may be important in the retention of zinc in the cellular compartment.
Synonyms:	ZIP2 Antibody, 6A1, ZIP2, ETI-1, ZIP-2, Zinc transporter ZIP2, 6A1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SLC39A2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ZIP2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the N-terminus of human ZIP2.
Purity/Specificity:	Anti-ZIP2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ZIP2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NP94 • GeneID - 29986 • NCBI - NP_001243517.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ZIP2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 33 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1 µg/mL

Formulation

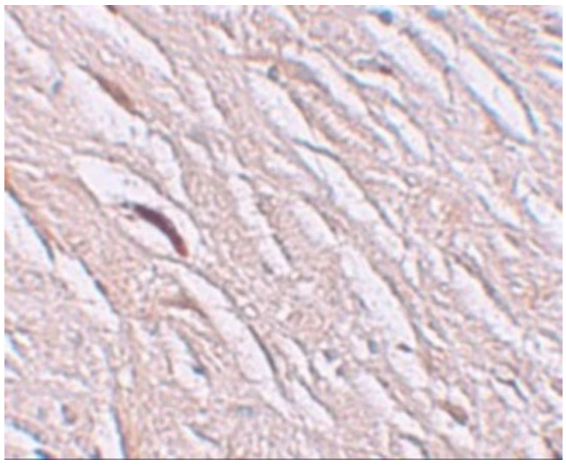
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

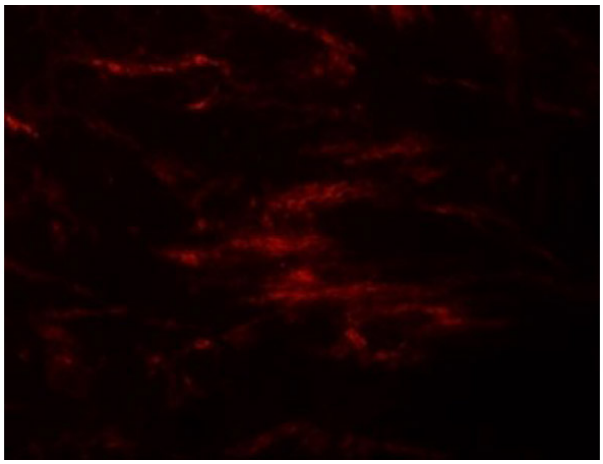
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

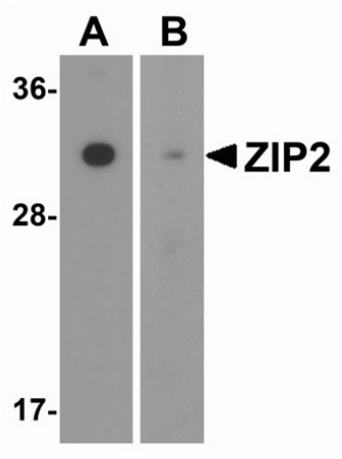
Images



Immunohistochemistry
Immunohistochemistry of ZIP2.
Tissue: human brain tissue.
Primary Antibody: Anti-ZIP2 antibody at 2.5 µg/mL.



Immunofluorescence Microscopy
Immunofluorescence of ZIP2.
Tissue: human brain tissue.
Primary Antibody: Anti-ZIP2 antibody at 20 µg/mL.



Western Blot
Western blot analysis of ZIP2.
Lane A: mouse brain tissue lysate, Lane B: rat brain tissue lysate.
Priamry Antibody: Anti-ZIP2 antibody at 1 µg/mL.

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