

Datasheet for 600-401-GE0**ZIP1 Antibody****Overview**

Description:	Anti-ZIP1 (RABBIT) Antibody - 600-401-GE0
Item No.:	600-401-GE0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	ZIP1, also known as ZIRTL (zinc-iron regulated transporter-like), is the first mammalian 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. ZIP1 expression is markedly downregulated in a number of cancerous tissues and is thought to function as a tumor suppressor gene in prostate cancer. More recent studies have shown that overexpression of ZIP1 and concomitant increased levels of intracellular zinc in PC-3 cells cause a significant inhibition of NF-κB, leading to down-regulation of the antiapoptotic protein Bcl-2, Bcl-XL, and the apoptosis inhibitor XIAP, reducing the malignant potential of prostate cancer cells in vitro and in vivo.
Synonyms:	ZIP1 Antibody, ZIP1, ZIRTL, IRT1, ZIP1, CGI-08, CGI-71, Zinc transporter ZIP1, Solute carrier family 39 member 1, ZIP-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SLC39A1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ZIP1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide near the N-terminus of human ZIP1.

Purity/Specificity: Anti-ZIP1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ZIP1 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q9NY26](#)
- [GeneID - 27173](#)
- [NCBI - NP_001258886.1](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-ZIP1 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 34 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 - 1:20,000

IF: 20 µg/mL

IHC: 2.5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 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

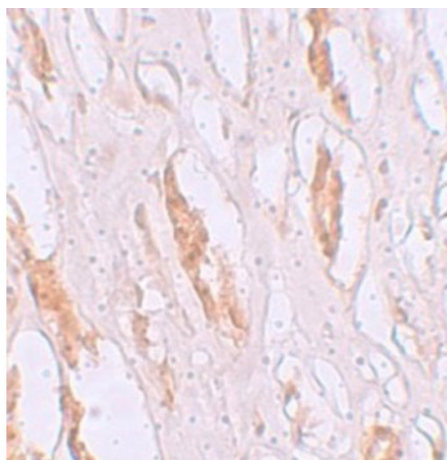
Shipping & Handling

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:

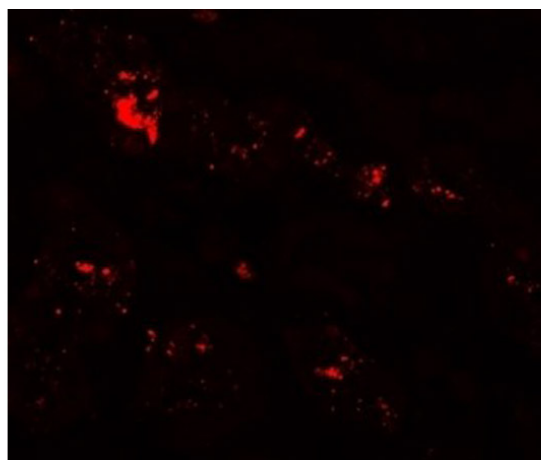
Expiration date is one (1) year from date of receipt.

Images**Immunohistochemistry**

Immunohistochemistry of ZIP1.

Tissue: human kidney tissue.

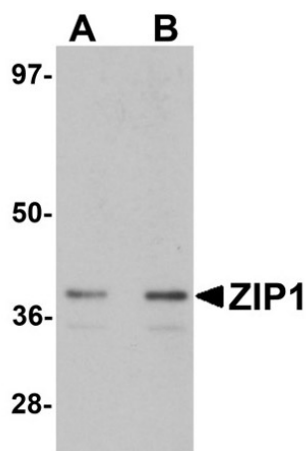
Primary Antibody: Anti-ZIP1 antibody at 2.5 µg/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of ZIP1.

Tissue: human kidney tissue.

Primary Antibody: Anti-ZIP1 antibody at 20 µg/mL.

**Western Blot**

Western blot analysis of ZIP1.

Load: mouse kidney tissue lysate.

Primary Antibody: Anti-ZIP1 antibody at (A) 1 μ g/mL and (B) 2 μ g/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.