

Datasheet for 600-401-GF0**ZIP5 Antibody****Overview**

Description:	Anti-ZIP5 (RABBIT) Antibody - 600-401-GF0
Item No.:	600-401-GF0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The zinc transporter ZIP5, also known as SLC39A5, 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. ZIP5 is closely related to ZIP4, and is found in many of the same tissues, including intestine, pancreas, liver, and kidney, but unlike ZIP4, ZIP5 localizes to the basolateral membrane in kidney cells and its activity is not downregulated by zinc repletion. Recent evidence suggests that ZIP4 and ZIP5 are reciprocally regulated, with translation of ZIP5 mRNA decreasing and ZIP5 protein being rapidly internalized and degraded in response to zinc deficiency.
Synonyms:	ZIP5 Antibody, ZIP5, LZT-Hs7, ZIP5, Zinc transporter ZIP5, Solute carrier family 39 member 5, ZIP-5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SLC39A5
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ZIP5 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the internal region of human ZIP5.

Purity/Specificity: Anti-ZIP5 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ZIP5 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q6ZMH5](#)
- [GeneID - 283375](#)
- [NCBI - NP_001128667.1](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-ZIP5 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 56 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 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

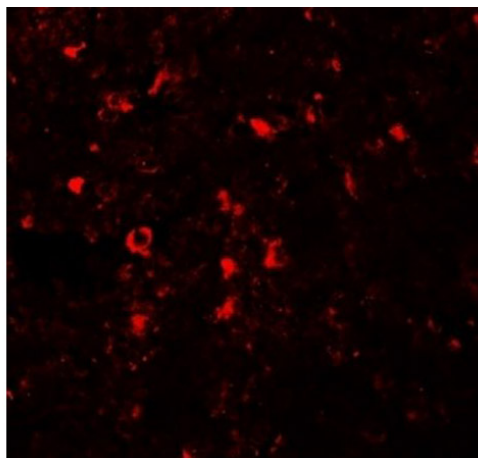
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

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

Images

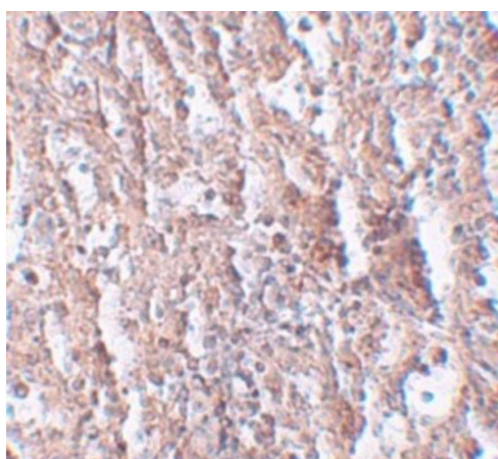


Immunofluorescence Microscopy

Immunofluorescence of ZIP5.

Tissue: human spleen tissue.

Primary Antibody: Anti-ZIP5 antibody at 20 µg/mL.

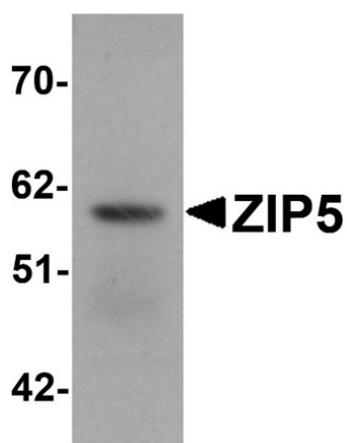


Immunohistochemistry

Immunohistochemistry of ZIP5.

Tissue: human spleen tissue.

Primary Antibody: Anti-ZIP5 antibody at 2.5 µg/mL.



Western Blot

Western blot analysis of ZIP5.

Load: human spleen tissue lysate.

Primary Antibody: Anti-ZIP5 antibody at 1 µg/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.