

Datasheet for 600-401-GE4**ZIP12 Antibody****Overview**

Description:	Anti-ZIP12 (RABBIT) Antibody - 600-401-GE4
Item No.:	600-401-GE4
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The zinc transporter ZIP12, also known as SLC39A12, 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). ZIP12 is a multipass membrane protein that belongs to the ZIP transporter subfamily LIV-1. Increased levels of ZIP12 have been observed during acute inflammation in the airway and asthma, suggesting that it may be promote increased zinc uptake, as this can reduce inflammation. The zinc content in brains in individuals with schizophrenia is lower than in individuals with other cerebral diseases, and mutations in ZIP12 have been observed in a small group of schizophrenic patients, suggesting that ZIP12 may play a role in this disease.
Synonyms:	ZIP12 Antibody, ZIP-12, LZT-Hs8, bA570F3.1, ZIP12, Zinc transporter ZIP12, LIV-1 subfamily of ZIP zinc transporter 8
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SLC39A12
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ZIP12 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the N-terminus of human ZIP12.
Purity/Specificity:	Anti-ZIP12 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least four isoforms of ZIP12 are known to exist. ZIP12 antibody is predicted to not cross-react with other ZIP family members.
Relevant Links:	• UniProtKB - Q504Y0 • GeneID - 221074 • NCBI - NP_001138667.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ZIP12 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 77 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:	1:5000-1:10000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	0.5-1 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

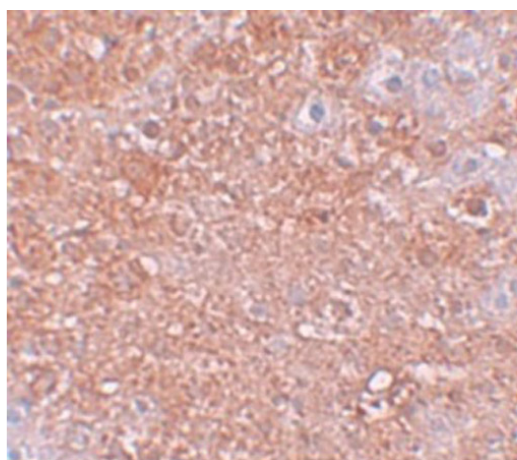
Shipping & Handling

Shipping Condition:	Dry Ice
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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

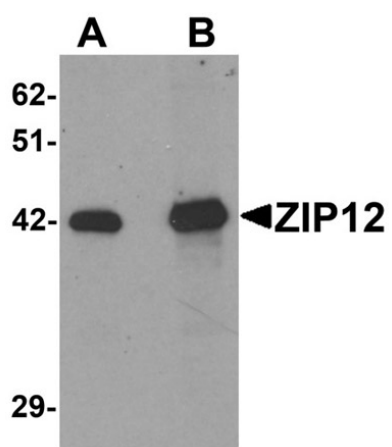


Immunohistochemistry

Immunohistochemistry of ZIP12.

Tissue: mouse liver tissue.

Primary Antibody: Anti-ZIP12 antibody at 2.5 µg/mL.

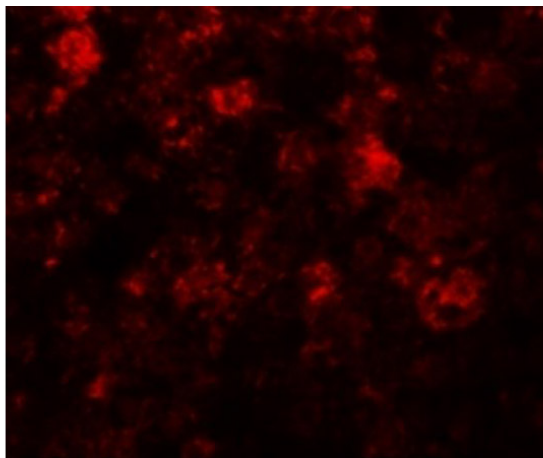


Western Blot

Western blot analysis of ZIP12.

Load: HepG2 cell lysate.

Primary Antibody: Anti-ZIP12 antibody at (A) 0.5 µg/mL and (B) 1 µg/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of ZIP12.

Tissue: mouse liver tissue.

Primary Antibody: Anti-ZIP12 antibody at 20 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.