

Datasheet for 600-401-CP3**LZTR2 Antibody****Overview**

Description:	Anti-LZTR2 (RABBIT) Antibody - 600-401-CP3
Item No.:	600-401-CP3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	LZTR2, also known as RGPR-p117, is a member of the BTB-kelch superfamily and was initially described as a nuclear factor I (NFI) binding protein and transcriptional regulator of the regucalcin gene. LZTR2 is cytoplasmically localized but is thought to translocate to the nucleus, a process mediated by protein kinase C signaling following hormonal stimulation. Recent evidence has suggested that there is a strong correlation of single nucleotide polymorphisms of LZTR2 with obesity in the Japanese population similar to that seen with the TMEM18 gene and the GNPDA2, BDNF, FAIM2, and MC4R genes with obesity in Caucasian populations, suggesting LZTR2 may play a role in metabolism and obesity risk.
Synonyms:	LZTR2 Antibody, RGPR, LZTR2, SEC16S, PGPR-p117, KIAA1928, RGPR, Protein transport protein Sec16B, Leucine zipper transcription regulator 2, RGPR-p117
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SEC16B
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-LZTR2 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human LZTR2.

Purity/Specificity: Anti-LZTR2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with LZTR2 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q96JE7](#)
- [GeneID - 89866](#)
- [NCBI - NP_149118](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-LZTR2 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 117 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: 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

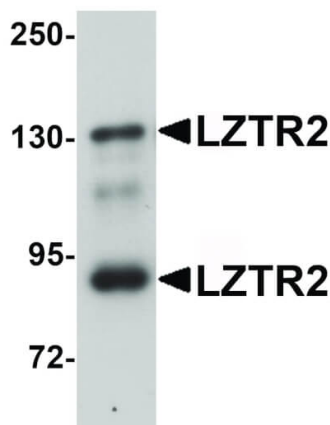
Shipping & Handling

Shipping Condition: Dry Ice

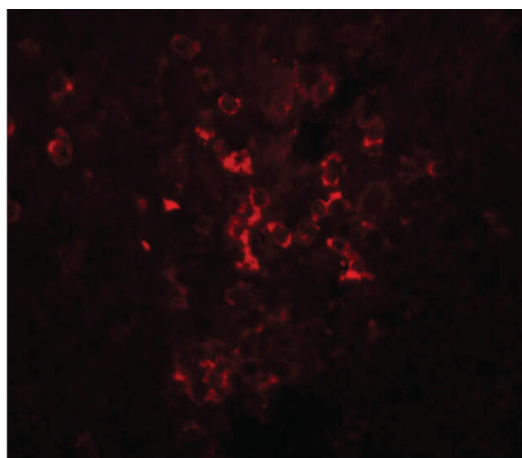
Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted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

Expiration:

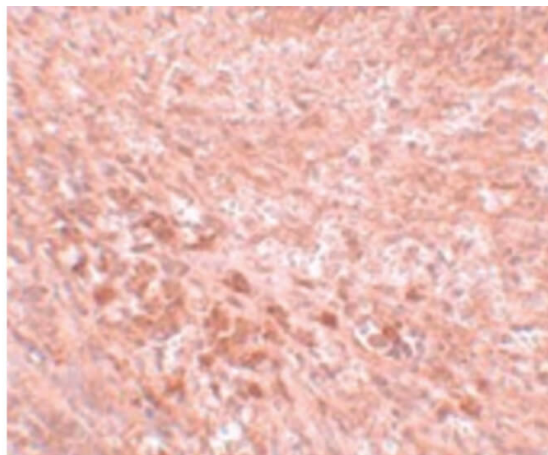
Expiration date is one (1) year from date of receipt.

Images**Western Blot**

Western Blot of LZTR2 antibody. Lane 1: Mouse kidney tissue lysate with LZTR2 antibody at 1 μ g/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 117 kDa, 130 kDa for LZTR2. Other band(s): LZTR2 splice variants and isoforms.

**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of LZTR2 antibody. Tissue: Mouse kidney tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: LZTR2 antibody at 20 μ g/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: LZTR2 is a membrane protein. Staining: LZTR2 as red fluorescent signal.

**Immunohistochemistry**

Immunohistochemistry of LZTR2 antibody. Tissue: Mouse kidney tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: LZTR2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: LZTR2 is a membrane protein. Staining: LZTR2 as precipitated brown signal with blue nuclear counterstain.

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.