

Datasheet for 600-401-CH3**LAMTOR1 Antibody****Overview**

Description:	Anti-LAMTOR1 (RABBIT) Antibody - 600-401-CH3
Item No.:	600-401-CH3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	LAMTOR1 is a 161 amino acid membrane protein belonging to the LAMTOR family. It has been identified to interact with and recruit the four Rag GTPases (Rag A-D) to the surface of lysosomes (1). The mTORC1 kinase complex is a critical component in the regulation of cell growth (2). As part of the ragulator complex, LAMTOR1 recruits the Rag GTPases and the mTORC1 complex to lysosomes, a key step in activation of the TOR signaling cascade by amino acids (3). LAMTOR1 may be involved in cholesterol homeostasis regulating LDL uptake and cholesterol release from late endosomes / lysosomes (4).
Synonyms:	LAMTOR1 Antibody, p18, PDRO, C11orf59, p27RF-Rho, Ragulator1, PP7157, Ragulator complex protein LAMTOR1, Lipid raft adaptor protein p18
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LAMTOR1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti- LAMTOR1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid peptide near the N-terminus of human LAMTOR1

Purity/Specificity: Anti-LAMTOR1 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. LAMTOR1 antibody is human, mouse and rat specific. LAMTOR1 antibody is predicted to not cross-react with other LAMTOR family proteins.

Relevant Links:

- [UniProtKB - Q6IAA8](#)
- [GeneID - 55004](#)
- [NCBI - NP_060377](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-LAMTOR1 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 18 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: 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

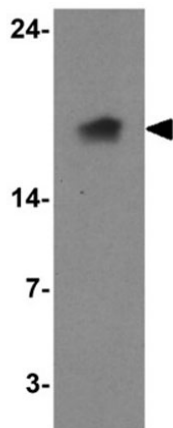
Shipping & Handling

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

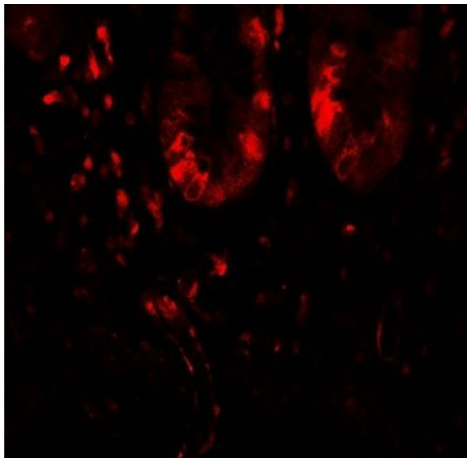


Western Blot

Western blot of LAMTOR1.

Load: A431 cell lysate.

Primary Antibody: LAMTOR1 antibody at 1 µg/ml.

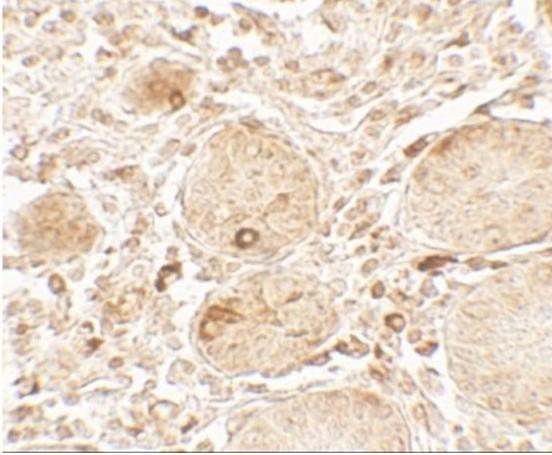


Immunofluorescence Microscopy

Immunofluorescence of LAMTOR1.

Tissue: human small intestine tissue.

Primary Antibody: LAMTOR1 antibody at 20 µg/mL.

**Immunohistochemistry**

Immunohistochemistry of LAMTOR1.

Tissue: human small intestine tissue.

Primary Antibody: LAMTOR1 antibody at 5 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.