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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

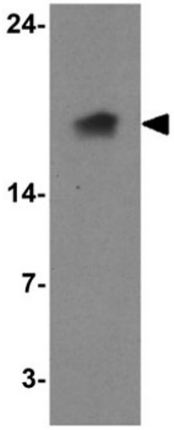
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

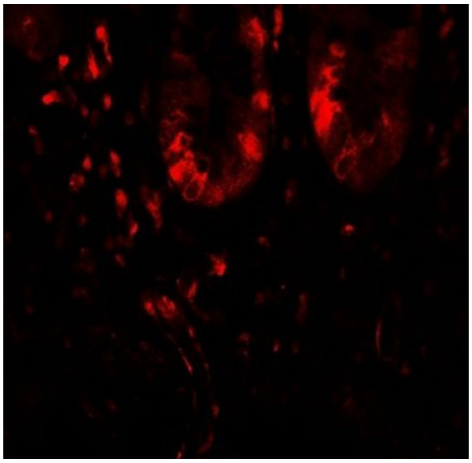
Shipping Condition:	Dry Ice

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.

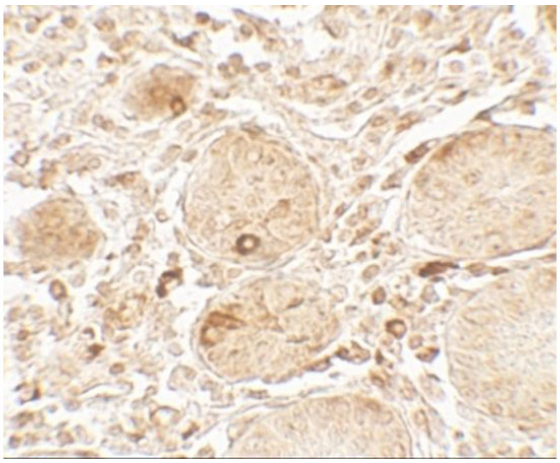
Images



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.

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