Datasheet for ABIN7167068

anti-LAMTOR1 antibody (AA 2-161)

2 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	LAMTOR1
Binding Specificity:	AA 2-161
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LAMTOR1 antibody is un-conjugated
Application:	Immunofluorescence (IF), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Ragulator complex protein LAMTOR1 protein (2-161AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	LAMTOR1
Alternative Name:	LAMTOR1 (LAMTOR1 Products)
Background:	Background: As part of the Ragulator complex it is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth

Target Details

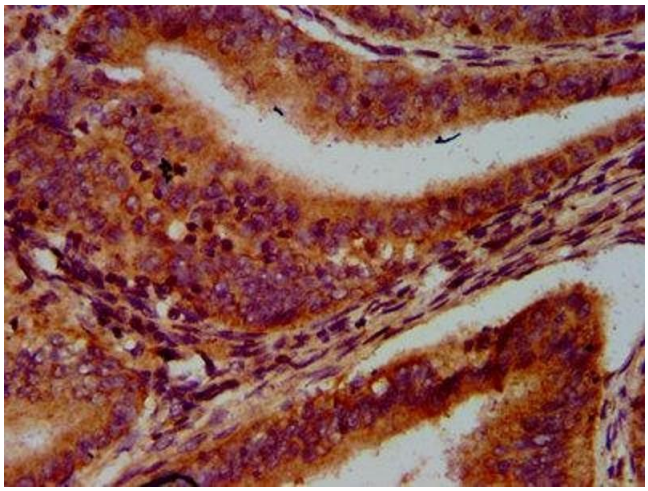
	factors, energy levels, and amino acids. Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator functions as a guanine nucleotide exchange factor activating the small GTPases Rag. Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated. LAMTOR1 is directly responsible for anchoring the Ragulator complex to membranes. Also required for late endosomes/lysosomes biogenesis it may regulate both the recycling of receptors through endosomes and the MAPK signaling pathway through recruitment of some of its components to late endosomes. May be involved in cholesterol homeostasis regulating LDL uptake and cholesterol release from late endosomes/lysosomes. May also play a role in RHOA activation. Aliases: C11orf59 antibody, LAMTOR1 antibody, Late endosomal/lysosomal adaptor and MAPK and MTOR activator 1 antibody, Lipid raft adaptor protein p18 antibody, LTOR1_HUMAN antibody, p18 antibody, p27Kip1-releasing factor from RhoA antibody, p27RF-Rho antibody, PDRO antibody, PP7157 antibody, Protein associated with DRMs and endosomes antibody, Ragulator complex protein LAMTOR1 antibody, ragulator complex protein PDRO antibody, Ragulator1 antibody, RhoA activator C11orf59 antibody
UniProt:	Q6IAA8

Application Details

Application Notes:	Recommended dilution: IHC:1:500-1:1000, IF:1:200-1:500,
Restrictions:	For Research Use only

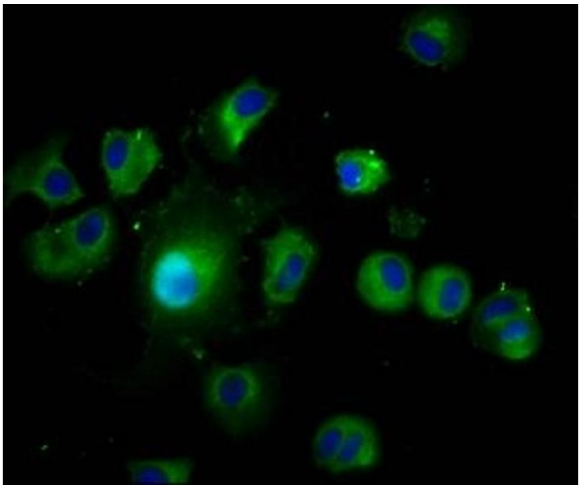
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. IHC image of ABIN7167068 diluted at 1:600 and staining in paraffin-embedded human endometrial cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence

Image 2. Immunofluorescence staining of MCF-7 cells with ABIN7167068 at 1:200, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).

