



LAMTOR1/C11orf59 Rabbit mAb

Catalog No	YP-rAb-18520
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	LAMTOR1 C11orf59 PDRO PP7157
Protein Name	Ragulator complex protein LAMTOR1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	Late endosomal/lysosomal adaptor and MAPK and MTOR activator 1 ; Lipid raft adaptor protein p18 ; Protein associated with DRMs and endosomes ; p27Kip1-releasing factor from RhoA ; p27RF-Rho ;
Observed Band	18kD
Calculated Molecular Weight	18kD
Cell Pathway	lysosome membrane; Lipid-anchor Late endosome membrane; Lipid-anchor Note: Recruited to lysosome and endosome membranes through N-terminal myristoylation and palmitoylation.
Tissue Specificity	Down-regulated by cholesterol (at protein level).
Function	Key component of the Ragulator complex, a multiprotein complex involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids (PubMed:20381137, PubMed:22980980, PubMed:29158492). Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator plays a dual role for the small GTPases Rag (RagA/RRAGA, RagB/RRAGB, RagC/RRAGC and/or RagD/RRAGD); it 1 acts as a guanine nucleotide exchange factor (GEF), activating the small GTPases Rag and 2 mediates recruitment of Rag GTPases to the lysosome membrane (PubMed:22980980, PubMed:28935770, PubMed:29158492, PubMed:30181260, PubMed:31001086,

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PubMed:32686708, PubMed:36476874). Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated (PubMed:20381137, PubMed:22980980, PubMed:29158492). LAMTOR1 is directly responsible for anchoring the Ragulator complex to the lysosomal membrane (PubMed:31001086, PubMed:32686708). LAMTOR1 wraps around the other subunits of the Ragulator complex to hold them in place and interacts with the Rag GTPases, thereby playing a key role in the recruitment of the mTORC1 complex to lysosomes (PubMed:28935770, PubMed:29107538, PubMed:29123114, PubMed:29285400). Also involved in the control of embryonic stem cells differentiation via non-canonical RagC/RRAGC and RagD/RRAGD activation: together with FLCN, it is necessary to recruit and activate RagC/RRAGC and RagD/RRAGD at the lysosomes, and to induce exit of embryonic stem cells from pluripotency via non-canonical, mTOR-independent TFE3 inactivation (By similarity). 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 (PubMed:20381137, PubMed:22980980). May be involved in cholesterol homeostasis regulating LDL uptake and cholesterol release from late endosomes/lysosomes (PubMed:20544018). May also play a role in RHOA activation (PubMed:19654316).

Background

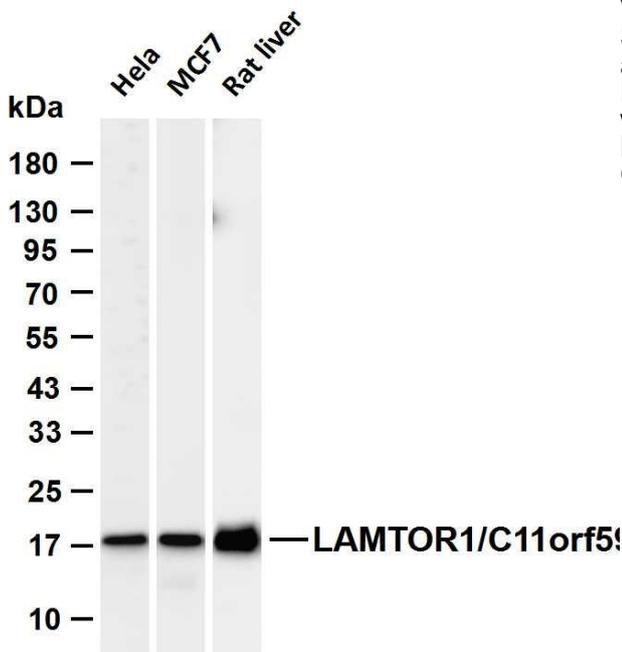
Enables GTPase binding activity and protein-membrane adaptor activity. Contributes to guanyl-nucleotide exchange factor activity and molecular adaptor activity. Involved in several processes, including cholesterol homeostasis; positive regulation of TORC1 signaling; and regulation of cholesterol transport. Located in lysosome. Part of FNIP-folliculin RagC/D GAP. Is active in Ragulator complex and lysosomal membrane. [provided by Alliance of Genome Resources, Apr 2025]

matters needing attention

Avoid repeated freezing and thawing!

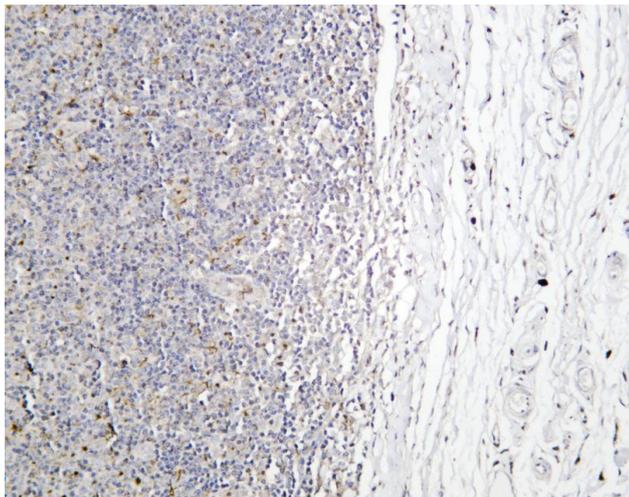
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-LAMTOR1/C11orf59 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: MCF7 Lane 3: Rat liver Predicted band size: 18kDa Observed band size: 18kDa





Human tonsil was stained with anti-LAMTOR1/C11orf59 Rabbit antibody

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