Product **Datasheet**

Anti-LAMTOR1 Rabbit pAb

WL01216

For Research Use Only.Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-LAMTOR1 Rabbit pAb	
Source	Rabbit	
Species reactivity	Human, Mouse, Rat	
Tested applications	WB	1:500-1:1000
	IHC	1:200
	IF	1:200
Cellular localization	Late endosome membrane. Lysosome membrane. Cell membrane	
Pack size	50/100/200/500/1000µl	
Storage	Store at -20°C. Avoid freeze/thaw cycles.	
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide	

General Information

Background

LAMTOR1 (ragulator complex protein LAMTOR1 or PDRO), a part of Ragulator complex which contains LAMTOR1-5, is a relatively novel lapidated protein adaptor of the lysosomal membrane which senses and integrates a diverse array of cellular signals, with mTOR kinase activity within the complex being influenced by a variety of nutrients e.g. amino acids, glucose etc., oxygen status, cellular energy levels, and many secreted growth factors such as cytokines and hormones, including insulin. LAMTOR1 is directly responsible for anchoring the Ragulator complex to membranes and is also required for late endosomes/lysosomes biogenesis. It regulates both the recycling of receptors through endosomes and MAPK signaling pathway through recruitment of some of its components to late endosomes. LAMTOR1 deregulation is observed in certain pathologies including cancer, diabetes and neurodegenerative diseases.

Immunogen

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of LAMTOR1.

Purification

Polyclonal antibody was purified by immunogen affinity chromatography.

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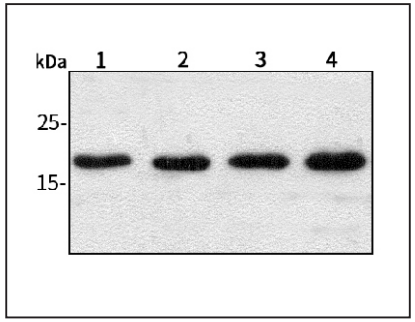
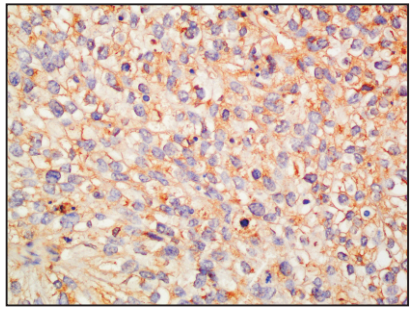
Product Images



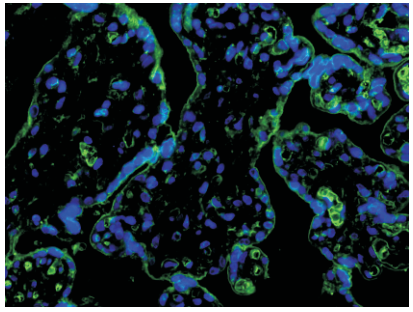
Western blot-Anti-LAMTOR1 pAb

Lane 1: Human HepG2 cell lysate
Lane 2: Human Hela cell lysate
Lane 3: Human BGC-823 cell lysate
Lane 4: Human MGC-803 cell lysate
All lanes: Anti-LAMTOR1 at 1:1000 dilution
Lysates/proteins at 20-50 µg per lane.
Predicted band size: 18 kDa
Observed band size: 18 kDa



Immunohistochemistry-Anti-LAMTOR1 pAb

Immunohistochemical analysis of paraffin-embedded human bladder cancer using anti-LAMTOR1 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunofluorescence-Anti-LAMTOR1 pAb

Immunofluorescence analysis of paraffin-embedded huamn placenta using anti-LAMTOR1 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

Wanleibio Co.,Ltd. *400-602-0407* *sales@wanleibio.com* *www.wanleibio.com*

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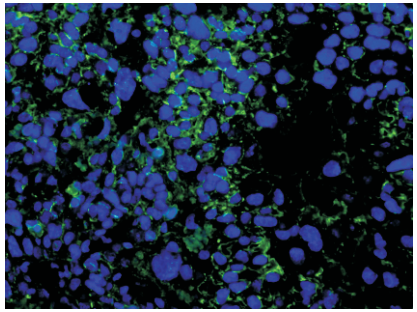

Immunofluorescence-Anti-LAMTOR1 pAb

Immunofluorescence analysis of paraffin-embedded mouse placenta using anti-LAMTOR1 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0