

Product datasheet

Anti-LAMTOR1 antibody ab121157

3 Images

Overview

<b>Product name</b>	Anti-LAMTOR1 antibody
<b>Description</b>	Rabbit polyclonal to LAMTOR1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Recombinant fragment, corresponding to amino acids 9-156 of Human LAMTOR1.
<b>Positive control</b>	Human rectum tissue; A549 cell lysate

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C.
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab121157** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/250 - 1/500.

Target

## Function

Regulator of the TOR pathway, a signaling cascade that promotes cell growth in response to growth factors, energy levels, and amino acids. As part of the Ragulator complex, recruits the Rag GTPases and the mTORC1 complex to lysosomes, a key step in activation of the TOR signaling cascade by amino acids. 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.

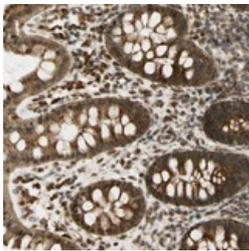
## Sequence similarities

Belongs to the LAMTOR1 family.

## Cellular localization

Late endosome membrane. Lysosome membrane. Cell membrane.

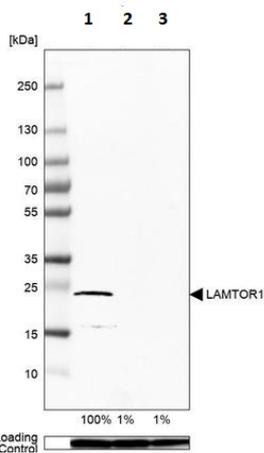
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAMTOR1 antibody (ab121157)

ab121157 at 1/350 dilution staining LAMTOR1 in Paraffin-embedded Human Rectum tissue by Immunohistochemistry.

Note: strong cytoplasmic positivity, with a granular pattern, in glandular cells.



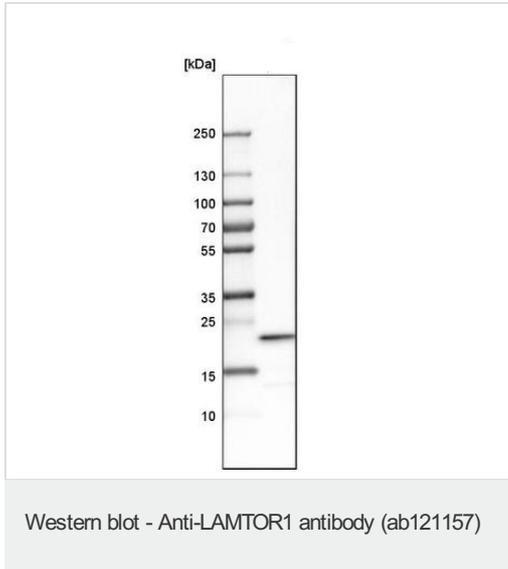
Western blot - Anti-LAMTOR1 antibody (ab121157)

**All lanes** : Anti-LAMTOR1 antibody (ab121157) at 0.4  $\mu$ g/ml

**Lane 1** : MCF-7 cells transfected with control siRNA

**Lanes 2-3** : MCF-7 cells transfected with target specific siRNA probe

Anti-LAMTOR1 antibody (ab121157) at 0.4 µg/ml + A549 cell lysate



**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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