

**LAMP1 Antibody**  
Rabbit mAb  
Catalog # AP91029

## Specification

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### LAMP1 Antibody - Product Information

Application	WB, IHC
Primary Accession	<a href="#">P11279</a>
Clonality	Monoclonal
<b>Other Names</b>	
LAMP-1; CD107 antigen-like family member A; CD107a; LAMP1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	44882 Da

### LAMP1 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human LAMP1
Description	LAMP1 and LAMP2 (lysosome-associated membrane protein 1 and 2) are two abundant lysosomal membrane proteins. Both are transmembrane proteins and heavily glycosylated at the amino-terminal luminal side of the lysosomal inner leaflet, which protects the proteins from proteolysis. The carboxy terminus of LAMP1 is exposed to the cytoplasm and contains a tyrosine sorting motif which targets LAMP to lysosomal membranes. Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage Condition and Buffer	

### LAMP1 Antibody - Protein Information

**Name** LAMP1 {ECO:0000303|PubMed:23632890, ECO:0000312|HGNC:HGNC:6499}

#### Function

Lysosomal membrane glycoprotein which plays an important role in lysosome biogenesis, lysosomal pH regulation, autophagy and cholesterol homeostasis (PubMed:<a href="http://www.uniprot.org/citations/37390818" target="\_blank">37390818</a>). Acts as an important regulator of lysosomal lumen pH regulation by acting as a direct inhibitor of the proton channel TMEM175, facilitating lysosomal acidification for optimal hydrolase activity (PubMed:<a href="http://www.uniprot.org/citations/37390818" target="\_blank">37390818</a>). Also plays an

important role in NK-cells cytotoxicity (PubMed:<a href="http://www.uniprot.org/citations/2022921" target="\_blank">2022921</a>, PubMed:<a href="http://www.uniprot.org/citations/23632890" target="\_blank">23632890</a>). Mechanistically, participates in cytotoxic granule movement to the cell surface and perforin trafficking to the lytic granule (PubMed:<a href="http://www.uniprot.org/citations/23632890" target="\_blank">23632890</a>). In addition, protects NK-cells from degranulation-associated damage induced by their own cytotoxic granule content (PubMed:<a href="http://www.uniprot.org/citations/23847195" target="\_blank">23847195</a>). Presents carbohydrate ligands to selectins (PubMed:<a href="http://www.uniprot.org/citations/7685349" target="\_blank">7685349</a>).

### Cellular Location

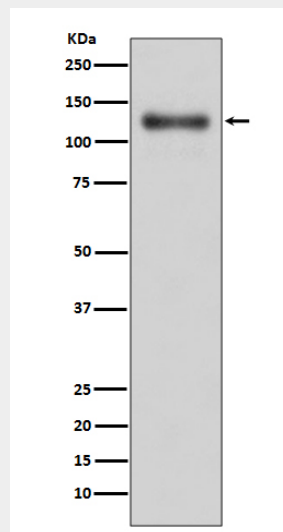
Lysosome membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein. Late endosome membrane; Single-pass type I membrane protein. Cell membrane; Single-pass type I membrane protein. Cytolytic granule membrane; Single-pass type I membrane protein. Note=This protein shuttles between lysosomes, endosomes, and the plasma membrane (By similarity). Colocalizes with OSBPL1A at the late endosome (PubMed:16176980). {ECO:0000250|UniProtKB:P05300, ECO:0000269|PubMed:16176980, ECO:0000269|PubMed:17897319}

### LAMP1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### LAMP1 Antibody - Images



Western blot analysis of LAMP1 expression in A431 cell lysate.