

# LAMP1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1823b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P11279</a>
<b>Other Accession</b>	<a href="#">P14562</a> , <a href="#">P11438</a> , <a href="#">P49129</a> , <a href="#">P05300</a> , <a href="#">Q05204</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Bovine, Chicken, Hamster, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB12510
<b>Calculated MW</b>	44882
<b>Antigen Region</b>	391-417

## Additional Information

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<b>Gene ID</b>	3916
<b>Other Names</b>	Lysosome-associated membrane glycoprotein 1, LAMP-1, Lysosome-associated membrane protein 1, CD107 antigen-like family member A, CD107a, LAMP1
<b>Target/Specificity</b>	This LAMP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 391-417 amino acids from the C-terminal region of human LAMP1.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	LAMP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	LAMP1 {ECO:0000303 PubMed:23632890, ECO:0000312 HGNC:HGNC:6499}
<b>Function</b>	Lysosomal membrane glycoprotein which plays an important role in

lysosome biogenesis, lysosomal pH regulation, autophagy and cholesterol homeostasis (PubMed:[37390818](#)). 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:[37390818](#)). Also plays an important role in NK-cells cytotoxicity (PubMed:[2022921](#), PubMed:[23632890](#)). Mechanistically, participates in cytotoxic granule movement to the cell surface and perforin trafficking to the lytic granule (PubMed:[23632890](#)). In addition, protects NK-cells from degranulation-associated damage induced by their own cytotoxic granule content (PubMed:[23847195](#)). Presents carbohydrate ligands to selectins (PubMed:[7685349](#)).

### 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}

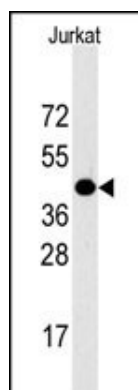
## Background

LAMP1 is a member of a family of membrane glycoproteins. This glycoprotein provides selectins with carbohydrate ligands. It may also play a role in tumor cell metastasis.

## References

Fukuda M., J. Biol. Chem. 263:18920-18928(1988).  
Sawada R., J. Biol. Chem. 268:9014-9022(1993).

## Images



Western blot analysis of LAMP1 Antibody (C-term) (Cat.#AP1823b) in Jurkat cell line lysates (35ug/lane). LAMP1 (arrow) was detected using the purified Pab.

## Citations

- [Ambient temperature reduction extends lifespan via activating cellular degradation activity in an annual fish \(Nothobranchius rachovii\).](#)