

**LAMP1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1823a****Specification**

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**LAMP1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P11279](#)**LAMP1 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 3916

**Other Names**

Lysosome-associated membrane glycoprotein 1, LAMP-1, Lysosome-associated membrane protein 1, CD107 antigen-like family member A, CD107a, LAMP1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1823a](/product/products/AP1823a) was selected from the N-term region of human Autophagy LAMP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**LAMP1 Antibody (N-term) Blocking Peptide - 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:[37390818](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/37390818)). Also plays an important role in NK-cells cytotoxicity (PubMed:[2022921](http://www.uniprot.org/citations/2022921)), PubMed:[23632890](http://www.uniprot.org/citations/23632890)). Mechanistically, participates in cytotoxic granule movement to the cell surface and perforin trafficking to the lytic granule (PubMed:[23632890](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 (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

#### LAMP1 Antibody (N-term) Blocking Peptide - Images

#### LAMP1 Antibody (N-term) Blocking Peptide - 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.

#### LAMP1 Antibody (N-term) Blocking Peptide - References

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