

**LAMP3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1827a****Specification**

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**LAMP3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9UQV4](#)**LAMP3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 27074**Other Names**

Lysosome-associated membrane glycoprotein 3, LAMP-3, Lysosomal-associated membrane protein 3, DC-lysosome-associated membrane glycoprotein, DC LAMP, Protein TSC403, CD208, LAMP3, DCLAMP, TSC403

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1827a](/product/products/AP1827a) was selected from the N-term region of human LAMP3. 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.

**LAMP3 Antibody (N-term) Blocking Peptide - Protein Information****Name** LAMP3**Synonyms** DCLAMP, TSC403**Function**

Lysosomal membrane glycoprotein which plays a role in the unfolded protein response (UPR) that contributes to protein degradation and cell survival during proteasomal dysfunction (PubMed: [25681212](http://www.uniprot.org/citations/25681212)). Plays a role in the process of fusion of the lysosome with the autophagosome, thereby modulating the autophagic process (PubMed: [24434718](http://www.uniprot.org/citations/24434718)). Promotes hepatocellular lipogenesis through activation of the PI3K/Akt pathway (PubMed: [29056532](http://www.uniprot.org/citations/29056532)). May also play a role in dendritic cell function and in adaptive

immunity (PubMed:<a href="http://www.uniprot.org/citations/9768752" target="\_blank">9768752</a>).

#### **Cellular Location**

Cell surface. Lysosome membrane; Single-pass type I membrane protein. Cytoplasmic vesicle membrane; Single-pass type I membrane protein. Early endosome membrane; Single-pass type I membrane protein. Note=During dendritic cell maturation, detected on cytoplasmic vesicles (the MHC II compartment) that contain MHC II proteins, LAMP1, LAMP2 and LAMP3 (PubMed:9768752). Detected on lysosomes in mature dendritic cells (PubMed:9768752).

#### **Tissue Location**

Detected in tonsil interdigitating dendritic cells, in spleen, lymph node, Peyer's patches in the small intestine, in thymus medulla and in B-cells (at protein level). Expressed in lymphoid organs and dendritic cells. Expressed in lung. Up-regulated in carcinomas of the esophagus, colon, rectum, ureter, stomach, breast, fallopian tube, thyroid and parotid tissues

#### **LAMP3 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **LAMP3 Antibody (N-term) Blocking Peptide - Images**

#### **LAMP3 Antibody (N-term) Blocking Peptide - Background**

LAMP3 is a member of a family of membrane glycoproteins. It may change lysosome function after the transfer of peptide-MHC class II molecules to the surface of dendritic cells.

#### **LAMP3 Antibody (N-term) Blocking Peptide - References**

Elliott,B., Clin. Cancer Res. 13 (13), 3825-3830 (2007)Zhu,L.C., Hum. Pathol. 38 (2), 260-268 (2007)Arruda,L.B., J. Immunol. 177 (4), 2265-2275 (2006)