

LAMP3 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1827A

Specification

LAMP3 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9UQV4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	8-38

LAMP3 Antibody (N-term) - 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

This LAMP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-38 amino acids from the N-terminal region of human LAMP3.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

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.

Storage

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.

Precautions

LAMP3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LAMP3 Antibody (N-term) - 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](#)). Plays a role in the process of fusion of the lysosome with the autophagosome, thereby modulating the autophagic process (PubMed:[24434718](#)). Promotes hepatocellular lipogenesis through activation of the PI3K/Akt pathway (PubMed:[29056532](#)). May also play a role in dendritic cell function and in adaptive immunity (PubMed:[9768752](#)).

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) - 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](#)

LAMP3 Antibody (N-term) - Images

LAMP3 Antibody (N-term) - 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) - References

References for protein:

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

References for U251 cell line:

1. Westermarck B.; Pontén J.; Hugosson R. (1973). "Determinants for the establishment of permanent tissue culture lines from human gliomas". Acta Pathol Microbiol Scand A. 81:791-805. [PMID: 4359449].
2. Pontén, J., Westermarck B. (1978). "Properties of Human Malignant Glioma Cells in Vitro". Medical Biology 56: 184-193. [PMID: 359950].
3. Geng Y.; Kohli L.; Klocke B.J.; Roth K.A. (2010). "Chloroquine-induced autophagic vacuole accumulation and cell death in glioma cells is p53 independent". Neuro Oncol. 12(5): 473-481. [PMID: 20406898].

LAMP3 Antibody (N-term) - Citations

- [The potential role of lysosome-associated membrane protein 3 \(LAMP3\) on cardiac remodelling.](#)
- [Hypoxic regulation and prognostic value of LAMP3 expression in breast cancer.](#)