

Anti-LAMP3 Picoband Antibody
Catalog # ABO13068**Specification****Anti-LAMP3 Picoband Antibody - Product Information**

Application	IHC
Primary Accession	O9UQV4
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for LAMP3 detection. Tested with IHC-P, Direct ELISA in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-LAMP3 Picoband Antibody - 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

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml
Direct ELISA, 0.1-0.5 µg/ml

Subcellular Localization

Lysosome membrane.

Tissue Specificity

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.

Contents

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E. coli-derived human LAMP3 recombinant protein (Position: K28-E375).

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C; for one year. After reconstitution, at 4°C; for one month. It can also be aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and thawing.

Anti-LAMP3 Picoband Antibody - 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: [9768752](http://www.uniprot.org/citations/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).

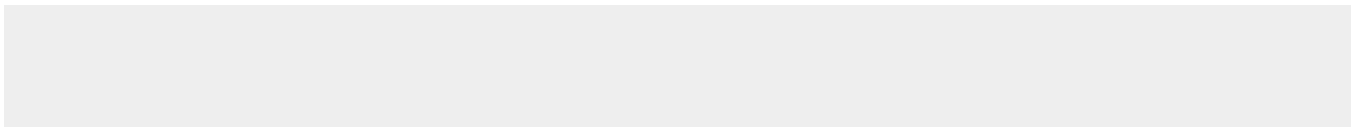
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Anti-LAMP3 Picoband Antibody - Protocols

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](#)

Anti-LAMP3 Picoband Antibody - Images

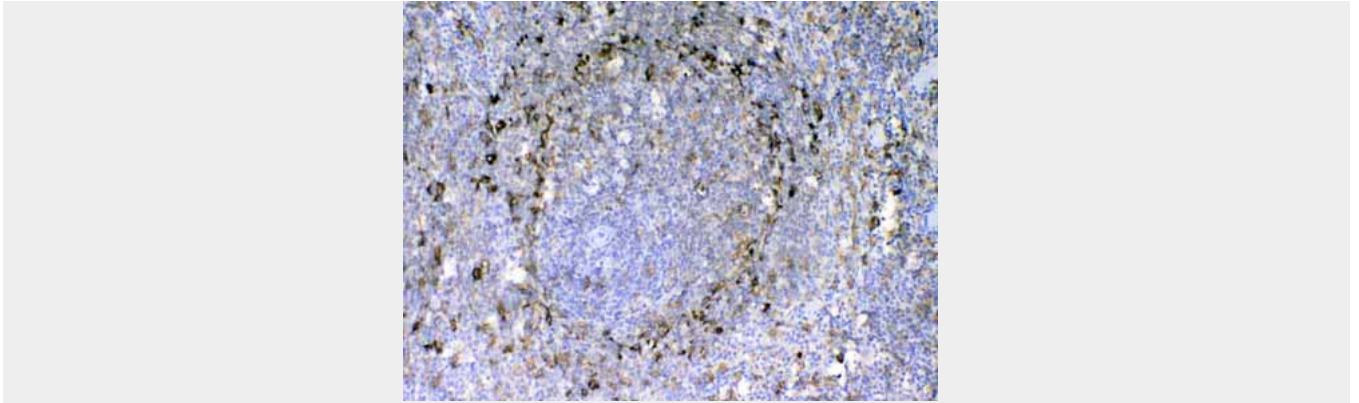


Figure 4. IHC analysis of LAMP3 using anti-LAMP3 antibody (ABO13068).

Anti-LAMP3 Picoband Antibody - Background

Lysosome-associated membrane glycoprotein 3 (LAMP3, Lamp3) is a protein that in humans is encoded by the LAMP3 gene. This gene is mapped to chromosome 3q26.3-q27. It is one of the lysosome-associated membrane glycoproteins. Dendritic cells (DCs) are the most potent antigen-presenting cells. Immature DCs efficiently capture antigens and differentiate into interdigitating dendritic cells (IDCs) in lymphoid tissues that induce primary T-cell responses