

Rabbit anti-Human LAMP3 Polyclonal Antibody | anti-LAMP3 antibody

LAMP3 Antibody (N-term)

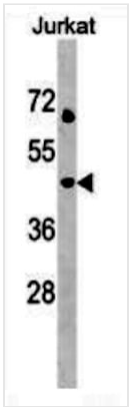
CATALOG # AAA284521	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA
-------------------------------	-----------------------	----------------------------	------------------------------

PRODUCT SYNONYMS

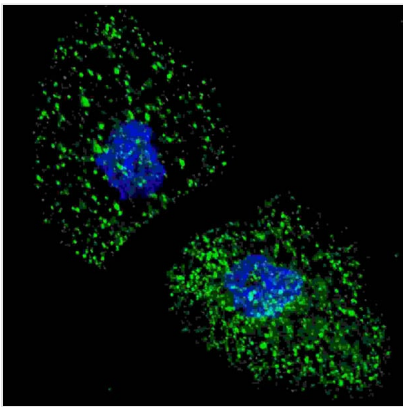
LAMP3; Polyclonal Antibody; LAMP3 Antibody (N-term); Lysosome-associated membrane glycoprotein 3; LAMP-3; Lysosomal-associated membrane protein 3; DC-lysosome-associated membrane glycoprotein; DC LAMP; Protein TSC403; CD208; DCLAMP; TSC403; anti-LAMP3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	8-38
Sequence Length	416
Applicable Applications for anti-LAMP3 antibody	ELISA
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
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
LAMP3 Antibody (N-term) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the LAMP3 antibody detected the LAMP3 protein (arrow).



IF (Immunofluorescence)
Fluorescent image of U251 cells stained with LAMP3 (N-term) antibody. U251 cells were treated with Chloroquine (50 uM, 16h), then fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA284521 LAMP3 (N-term) primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). LAMP3 immunoreactivity is localized to autophagic vacuoles in the cytoplasm of U251 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-LAMP3 antibody	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.
Product Categories/Family for anti-LAMP3 antibody	Cancer; Signal Transduction
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].

NCBI AND UNIPROT INFORMATION

NCBI GI #	38455385
NCBI GeneID	27074
NCBI Accession #	NP_055213.2
NCBI GenBank Nucleotide #	NM_014398.3
UniProt Accession #	Q9UQV4; O94781; Q8NEC8; D3DNS4
Molecular Weight	44346
NCBI Official Full Name	lysosome-associated membrane glycoprotein 3
NCBI Official Synonym Full Names	lysosomal-associated membrane protein 3
NCBI Official Symbol	LAMP3
NCBI Official Synonym Symbols	LAMP; CD208; DCLAMP; LAMP-3; TSC403; DC LAMP; DC-LAMP

NCBI Protein Information	lysosome-associated membrane glycoprotein 3
UniProt Protein Name	Lysosome-associated membrane glycoprotein 3
UniProt Gene Name	LAMP3
UniProt Synonym Gene Names	DCLAMP; TSC403; LAMP-3; Lysosomal-associated membrane protein 3; DC LAMP
UniProt Entry Name	LAMP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/lamp3-antibody-elisa/284521>