

Mouse anti-Human LAMP1 Monoclonal Antibody | anti-LAMP1 antibody

Anti-LAMP1 Antibody, Mouse Monoclonal

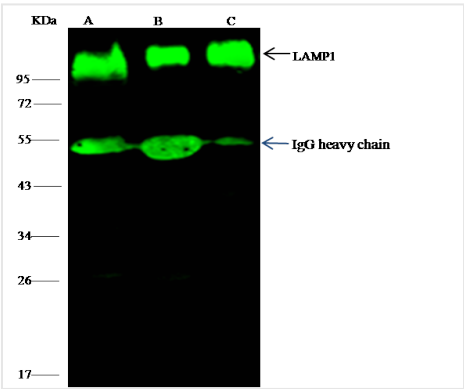
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255357	Mouse	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, ELISA, ELISA

PRODUCT SYNONYMS

LAMP1; Monoclonal Antibody; Anti-LAMP1 Antibody; Mouse Monoclonal; LAMP1/CD107a Antibody; Mouse MAb; lysosomal-associated membrane protein 1; Anti-CD107a Antibody; Anti-LAMPA Antibody; Anti-LGP120 Antibody; anti-LAMP1 antibody

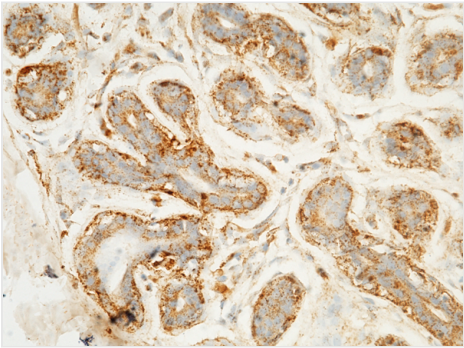
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	07
Specificity	Human LAMP1/CD107a
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-LAMP1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), ELISA, ELISA
Immunogen	Recombinant Human LAMP1 protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human LAMP1 extracellular domain (rh LAMP1). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



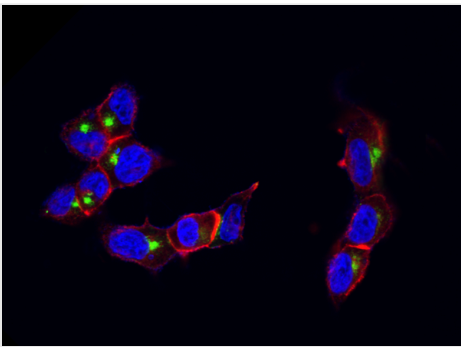
IP (Immunoprecipitation)

LAMP1 was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate; Lane B: 0.5 mg Jurkat Whole Cell Lysate; Lane C: 0.5 mg Daudi Whole Cell Lysate. 4 μ L anti-LAMP1 mouse monoclonal antibody and 15 μ L of 50 % Protein G agarose. Primary antibody: Anti-LAMP1 mouse monoclonal antibody, at 1:100 dilution. Secondary antibody: DyLight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 45 kDa. Observed band size: 113 kDa.



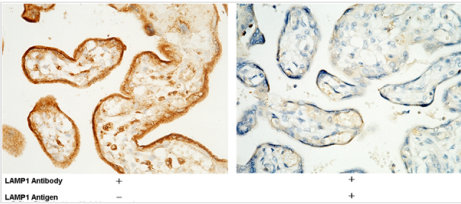
IHC (Immunohistochemistry)

Immunohistochemical staining of human LAMP1 in human breast carcinoma with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).



IF (Immunofluorescence)

Confocal immunofluorescence analysis of Human LAMP1 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with Mouse anti-Human LAMP1 monoclonal antibody (1:60). Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-mouse IgG secondary antibody, counterstained with Alexa Fluor 546-conjugated phallotoxins (red) and DAPI (blue). Positive staining was localized to lysosome membrane.



IHC (Immunohistochemistry)

Immunohistochemical staining of human LAMP1 in human placenta with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections). The left panel: tissue incubated with primary antibody; The right panel: tissue incubated with the mixture of primary antibody and antigen (recombinant protein).

ADDITIONAL INFORMATION

Related Product Information for anti-LAMP1 antibody	Lysosome-associated membrane glycoprotein 1, also known as CD107 antigen-like family member A, CD107a, and LAMP1, is a single-pass type I membrane protein that belongs to the LAMP family. CD107a is expressed largely in the endosome-lysosome membranes of cells but is also found on the plasma membrane (1-2% of total LAMP1). LAMP1 has been implicated in a variety of cellular functions, including cancer metastasis. It has been proposed LAMP1 serves as a therapeutic agent for some cancers, as well as a marker for lysosomal storage disorders and different cell types such as cytotoxic T cells. LAMP2, also known as CD107b, may also play a role in tumor cell metastasis and functions in the protection, maintenance, and adhesion of the lysosome. Cell surface LAMP1 and LAMP2 have been shown to promote adhesion of human peripheral blood mononuclear cells (PBMC) to vascular endothelium, therefore they are possibly involved in the adhesion of PBMCs to the site of inflammation. LAMP-1 is a glycoprotein highly expressed in lysosomal membranes. The present study was initiated to test LAMP-1 mRNA and protein levels in post mortem frontal cortex (area 8) of Alzheimer's disease (AD) stages I-IIA/B and stages V-VIC of Braak and Braak, compared with age-matched controls. LAMP-1 occurred in microglia and multinucleated giant cells in one AD case in which amyloid burden was cleared following beta A-peptide immunization. Also, LAMP-1 has been suggested to be a cell surface receptor for a specific amelogenin isoform, leucine-rich amelogenin peptide, or LRAP. LAMP-1 can serve as a cell surface binding site for amelogenin on dental follicle cells and cementoblasts.
References	Parkinson-Lawrence EJ, et al. (2005) Immunohistochemical analysis of CD107a (LAMP-1). Cell Immunol. 236(1-2): 161-6. Barrachina M, et al. (2006) Lysosome-associated membrane protein 1 (LAMP-1) in Alzheimer's disease. Neuropathol Appl Neurobiol. 32(5): 505-16. Zhang H, et al. (2010) Full length amelogenin binds to cell surface LAMP-1 on tooth root/periodontium associated cells. Arch Oral Biol. 55(6): 417-25.

NCBI AND UNIPROT INFORMATION

NCBI GI #	112380628
NCBI GeneID	3916
NCBI Accession #	NP_005552.3
NCBI GenBank Nucleotide #	NM_005561.3
UniProt Accession #	P11279; Q8WU33; Q96I40; Q9BRD2; Q9NP13
Molecular Weight	44,882 Da
NCBI Official Full Name	lysosome-associated membrane glycoprotein 1
NCBI Official Synonym Full Names	lysosomal-associated membrane protein 1
NCBI Official Symbol	LAMP1
NCBI Official Synonym Symbols	LAMPA; CD107a; LGP120
NCBI Protein Information	lysosome-associated membrane glycoprotein 1; LAMP-1; CD107 antigen-like family member A; lysosome-associated membrane protein 1
UniProt Protein Name	Lysosome-associated membrane glycoprotein 1
UniProt Gene Name	LAMP1
UniProt Synonym Gene Names	LAMP-1
UniProt Entry Name	LAMP1_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/lamp1-antibody-clone-07-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/255357>