

Mouse Anti-Human Lysosome-associated membrane glycoprotein 1 Monoclonal Antibody

Cat. No. CAB11574MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Lysosome-associated membrane glycoprotein 1
Species	Human
Source	Mouse
Antigen Description	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 which 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.
Specificity	Human LAMP1 / CD107a. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.

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Immunogen	Recombinant human LAMP1 protein
Isotype	Rabbit IgG
Cross Reactivity	107
Clone	A108
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human LAMP1 in WB. Using a DAB detection system, the detection limit for human LAMP1 is approximately 0.25 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditions Direct ELISA: This antibody can be used at 0.1 -0.2 µg/mL with the appropriate secondary reagents to detect human LAMP1. The detection limit for human LAMP1 is 0.00245 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human LAMP1 extracellular domain (rh LAMP1 ; NP_005552.3 ; Met 1 - Met 382).
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

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Gene Name	LAMP1 lysosomal-associated membrane protein 1 [Homo sapiens]
Official Symbol	LAMP1
Synonyms	LAMP1; lysosomal-associated membrane protein 1; lysosome-associated membrane glycoprotein 1; CD107a; LAMP-1; CD107 antigen-like family member A; lysosome-associated membrane protein 1; LAMPA; LGP120;
Gene ID	3916
mRNA Refseq	NM_005561
Protein Refseq	NP_005552
MIM	153330
UniProt ID	P11279
Chromosome Location	13q34
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Senescence and Autophagy, organism-specific biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem;