

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

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

## SPECIFICATION

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

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Immunogen</b>	Recombinant human LAMP1 protein
<b>Isotype</b>	Rabbit IgG
<b>Cross Reactivity</b>	107
<b>Clone</b>	A108
<b>Applications</b>	WB; ELISA
<b>Dilution</b>	<p>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</p> <p>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</p>
<b>Preparation</b>	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 ).
<b>Format</b>	0.2 µm filtered solution in PBS with 5% trehalose
<b>Storage</b>	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Gene Name</b>	LAMP1 lysosomal-associated membrane protein 1 [ Homo sapiens ]
<b>Official Symbol</b>	LAMP1
<b>Synonyms</b>	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;
<b>Gene ID</b>	3916
<b>mRNA Refseq</b>	NM_005561
<b>Protein Refseq</b>	NP_005552
<b>MIM</b>	153330
<b>UniProt ID</b>	P11279
<b>Chromosome Location</b>	13q34
<b>Pathway</b>	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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA