

Rabbit Anti-LAMP1 Polyclonal Antibody

CPB-170RH Rabbit(LAMP1)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-LAMP1 Polyclonal Antibody
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.
Target	LAMP1
Immunogen	Recombinant human LAMP1 protein.
Host	Rabbit
Isotype	IgG
Species	Human
conjugation	N/A
Applications	N/A
Preparation	Produced in rabbits immunized with purified, human cell-derived, recombinant human LAMP1 extracellular domain (Met 1- Met 382). LAMP1 specific IgG was purified by human LAMP1 affinity chromatography.

PACKAGING

Format	0.2 µm filtered solution in PBS with 5% trehalose.
Storage	This antibody can be stored at 2°C-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°C 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.

ANTIGEN GENE INFORMATION

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;
GeneID	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;