

For Research Use Only

# Mouse CD107a / LAMP1 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number:**86337-2-PBS**



## Basic Information

Catalog Number:	86337-2-PBS	GenBank Accession Number:	NM_010684.3	Purification Method:	Protein A purification
Source:	Rabbit	GenID (NCBI):	16783	CloneNo.:	250972C12
Isotype:	IgG	UNIPROT ID:	P11438		
Immunogen Catalog Number:	EG3858	Full Name:	lysosomal-associated membrane protein 1		
		Calculated MW:	44 kDa		
		Observed MW:	90-120 kDa		

## Applications

Tested Applications:  
WB, IF/ICC, IF-P, Cytometric bead array, Indirect ELISA

Species Specificity:  
mouse

## Background Information

LAMP1 (CD107a) is a heavily glycosylated membrane protein enriched in the lysosomal membrane. LAMP1 is extensively glycosylated with asparagine-linked oligosaccharides which protect it from intracellular proteolysis (PMID: 10521503). Although LAMP1 is expressed largely in the endosome-lysosomal membrane of cells, it is also found on the plasma membrane (PMID: 16168398). Elevated LAMP1 expression at the cell surface has also been detected during platelet and granulocytic cell activation, as well as in some tumor cells (PMID: 29085473). LAMP1 functions to provide selectins with carbohydrate ligands. This protein has also been shown to be a marker of degranulation on lymphocytes such as CD8+ and NK cells and may also play a role in tumor cell differentiation and metastasis (PMID: 18835598; 29085473; 9426697).

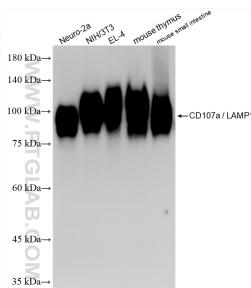
## Storage

Storage:  
Store at -80°C.  
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C  
Storage Buffer:  
PBS only, pH7.3

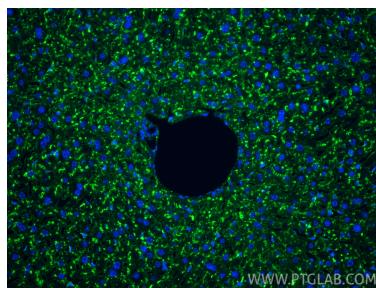
For technical support and original validation data for this product please contact:  
T: 4006900926      E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)      W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

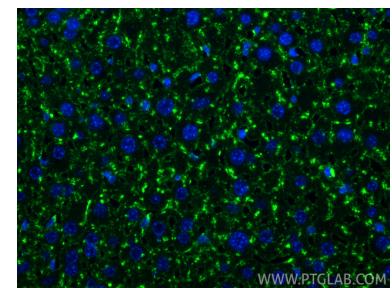
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86337-2-RR (LAMP-1/CD107a antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86337-2-PBS in a different storage buffer formulation.

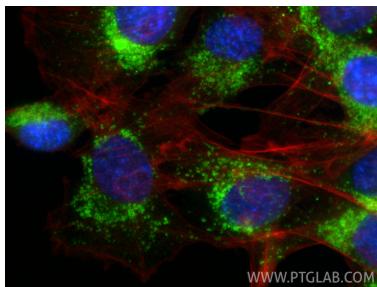


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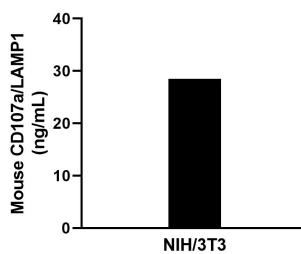


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Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using CD107a / LAMP1 antibody (86337-2-RR, Clone: 250972C12) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86337-2-PBS in a different storage buffer formulation.

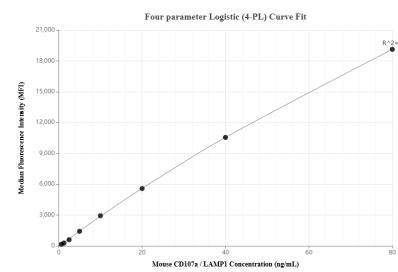


Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using CD107a / LAMP1 antibody (86337-2-RR, Clone: 250972C12) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red). This data was developed using the same antibody clone with 86337-2-PBS in a different storage buffer formulation.



The mean CD107a / LAMP1 concentration was determined to be 28.9 ng/mL in NIH/3T3 cell extract based on a 1.4 mg/mL extract load.

Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using CD107a / LAMP1 antibody (86337-2-RR, Clone: 250972C12) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86337-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP02362-1, MOUSE CD107a / LAMP1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86337-2-PBS. Detection antibody: 86337-1-PBS. Standard: Eg3858. Range: 0.625-80 ng/mL. R<sup>2</sup>=0.99