

For Research Use Only

CD107a / LAMP1 Recombinant monoclonal antibody

Catalog Number: 86337-2-RR



Basic Information

Catalog Number:	86337-2-RR	GenBank Accession Number:	NM_010684.3	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI):	16783	CloneNo.:	250972C12
Source:	Rabbit	UNIPROT ID:	P11438	Recommended Dilutions:	WB: 1:1000-1:6000 IF-P: 1:50-1:500 IF/ICC: 1:250-1:1000
Isotype:	IgG	Full Name:	lysosomal-associated membrane protein 1		
Immunogen Catalog Number:	EG3858	Calculated MW:	44 kDa		
		Observed MW:	90-120 kDa		

Applications

Tested Applications:	WB, IF/ICC, IF-P, ELISA	Positive Controls:	
Species Specificity:	mouse	WB:	Neuro-2a cells, NIH/3T3 cells, EL-4 cells, mouse thymus tissue, mouse small intestine cells

IF-P: mouse liver tissue,
IF/ICC: C2C12 cells, NIH/3T3 cells

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

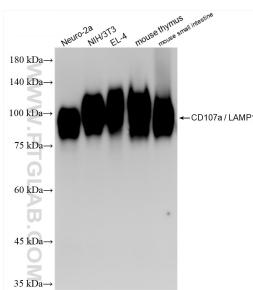
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

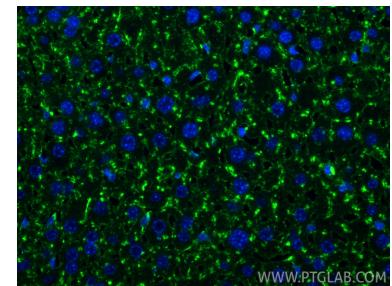
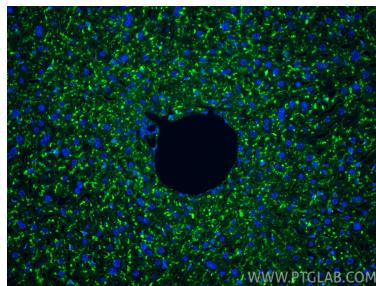
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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Selected Validation Data

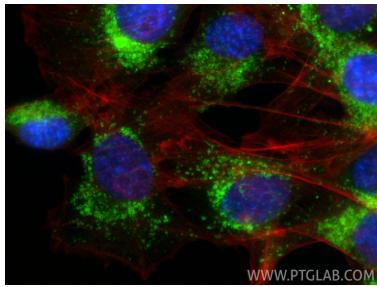


Various lysates were subjected to SDS PAGE followed by western blot with 86337-2-RR (LAMP-1/CD107a antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).

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).



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), C1594-phalloidin (red).