

For Research Use Only

Anti-Mouse CD107a / LAMP1 Rabbit Recombinant Antibody

Catalog Number: 98537-2-RR



Basic Information

Catalog Number: 98537-2-RR	GenBank Accession Number: NM_010684.3	Purification Method: Protein A purification
Concentration: 100ug, 1000 µg/ml	GeneID (NCBI): 16783	CloneNo.: 250972H5
Source: Rabbit	UNIPROT ID: P11438	Recommended Dilutions: IF-P: 1:50-1:500 IF/ICC: 1:200-1:800 FC: 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: lysosomal-associated membrane protein 1	
Immunogen Catalog Number: EG3858	Calculated MW: 44 kDa	

Applications

Tested Applications: IF/ICC, IF-P, FC	Positive Controls:
Species Specificity: mouse	IF-P : mouse liver tissue, IF/ICC : C2C12 cells, FC : mouse peritoneal macrophages,

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 2 - 8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:

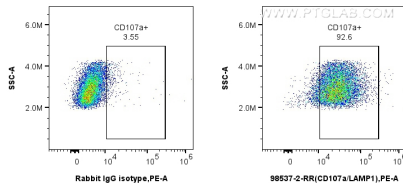
T: 4006900926

E: Proteintech-CN@ptglab.com

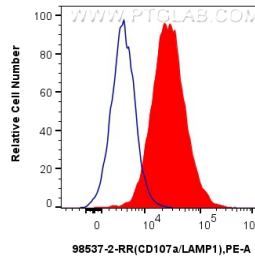
W: ptgcn.com

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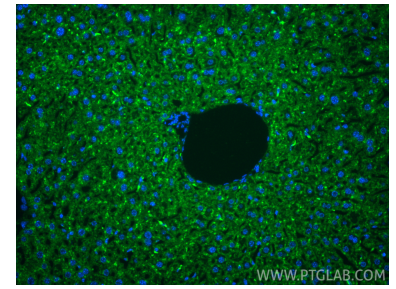
Selected Validation Data



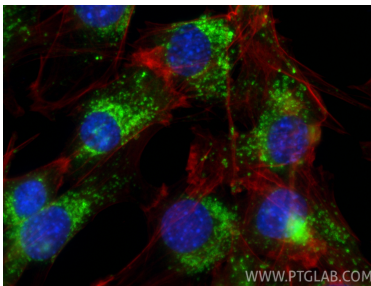
1x10⁶ mouse peritoneal macrophages were surface stained with 0.25 ug Anti-Mouse LAMP-1/CD107a Rabbit RecAb (98537-2-RR, Clone: 250972H5) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed.



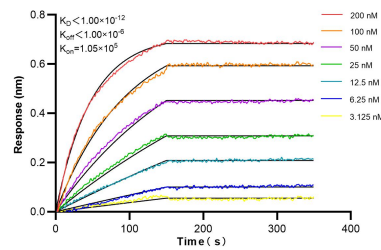
1x10⁶ mouse peritoneal macrophages were surface stained with 0.25 ug Anti-Mouse LAMP-1/CD107a Rabbit RecAb (98537-2-RR, Clone: 250972H5) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using LAMP-1/CD107a antibody (98537-2-RR, Clone: 250972H5) 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 LAMP-1/CD107a antibody (98537-2-RR, Clone: 250972H5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 98537-2-RR against Mouse CD107a / LAMP1 were performed. The affinity constant is below 1 pM.