

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  |
| Source:                   | Rabbit     | GenID (NCBI):             | 16783                                   | CloneNo.:              | 250972C12   |
| Isotype:                  | IgG        | UNIPROT ID:               | P11438                                  | Recommended Dilutions: | WB: 1:1000-1:6000<br>IF-P: 1:50-1:500<br>IF/ICC: 1:250-1:1000 |
| 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, 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).

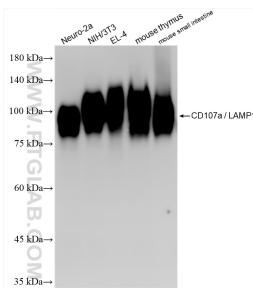
## Storage

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

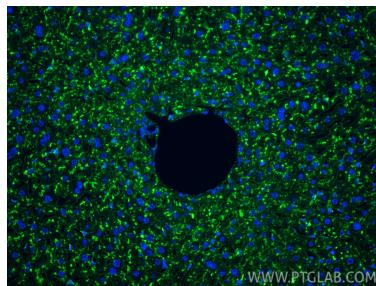
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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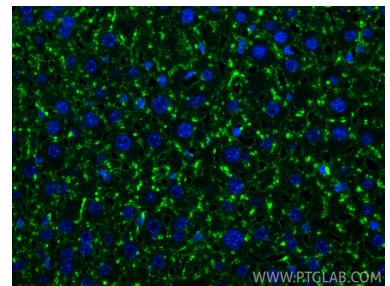
## Selected Validation Data



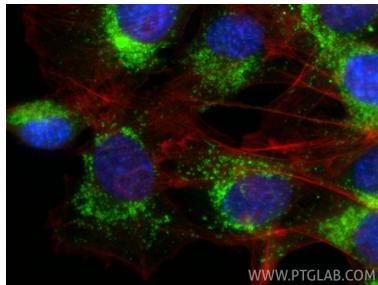
Various lysates were subjected to SDS PAGE followed by western blot with 86337-2-RR (LAMP-1/CD107a antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).