

For Research Use Only

Anti-Mouse CD107a / LAMP1 (1D4B)

Catalog Number: 65050-1-Ig **6 Publications**



Basic Information

Catalog Number:

65050-1-Ig

Size:

100ug, 0.5 mg/ml

Source:

Rat

Isotype:

IgG2a, kappa

GenBank Accession Number:

BC006785

GeneID (NCBI):

16783

UNIPROT ID:

P11438

Full Name:

lysosomal-associated membrane protein 1

Purification Method:

Protein G purification

CloneNo.:

1D4B

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.5 ug per 10⁶ cells in 100 µl suspension

Applications

Tested Applications:

IF/ICC, FC (Intra)

Cited Applications:

WB, IF

Species Specificity:

mouse

Cited Species:

human, mouse

Positive Controls:

IF/ICC : NIH/3T3 cells,

FC (Intra) : 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Li Wang	40058796	Cell Struct Funct	WB
Guiqin Ye	39755271	J Adv Res	IF
Panpan Wang	39183331	Mol Neurodegener	IF

Storage

Storage:

Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

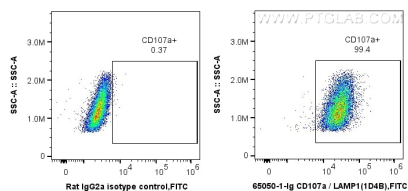
For technical support and original validation data for this product please contact:

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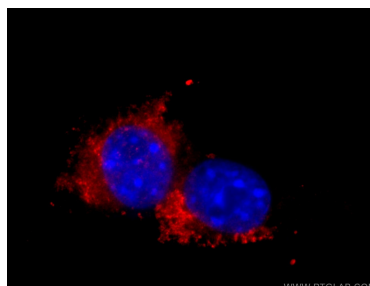
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



1X10⁶ NIH/3T3 cells were intracellularly stained with 0.5 ug Anti-Mouse CD107a / LAMP1 (65050-1-Ig, Clone:1D4B) and FITC anti-Rat IgG2a antibody at dilution 1:100, or 0.5 ug Rat IgG2a Isotype Control (2A3) (65209-1-Ig, Clone: 2A3) and FITC anti-Rat IgG2a antibody at dilution 1:100. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using 65050-1-Ig (CD107a antibody) at dilution of 1:100 and Rhodamine (TRITC)-conjugated Goat Anti-Rat IgG(H+L).