For Research Use Only

Anti-Mouse CD107a / LAMP1 (1D4B)

Catalog Number:65050-1-Ig 2 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

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:
Affinity purification

CloneNo.:
1D4B

Recommended Dilutions:
IF 1:50-1:500

Applications

Tested Applications:
FC (Intra), IF/ICC

Cited Applications:
IF

Species Specificity:
Mouse

Cited Species:
mouse

Positive Controls:

IF : 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

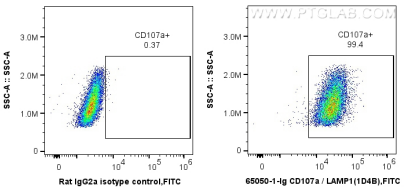
Author	Pubmed ID	Journal	Application
Weidong Le	37292937	Res Sq	IF
Rui Hua	36924084	J Cell Physiol	IF

Storage

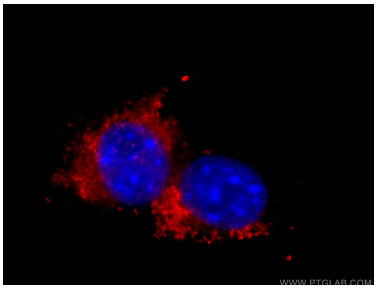
Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide.

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

Selected Validation Data



1X10^6 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).