

For Research Use Only

Anti-Mouse CD107a / LAMP1 (1D4B)

Catalog Number: 65050-1-Ig



Basic Information

Catalog Number: 65050-1-Ig	GenBank Accession Number: BC006785	Purification Method: Affinity purification
Size: 500ug, 0.5 mg/ml	GeneID (NCBI): 16783	CloneNo.: 1D4B
Source: Rat	Full Name: lysosomal-associated membrane protein 1	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a		

Applications

Tested Applications: FC, IF	Positive Controls: IF : NIH/3T3 cells,
Species Specificity: Mouse	

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).

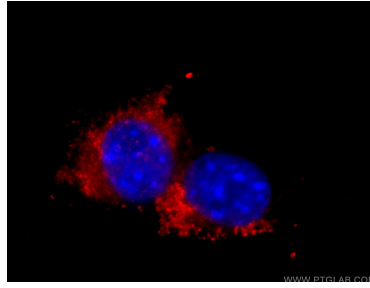
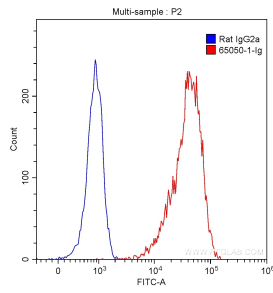
Storage

Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
Borate buffered saline, pH 8.2.

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 W: ptglab.com

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Selected Validation Data



1X10⁶ NIH/3T3 cells were intracellularly stained with 0.50 ug Anti-Mouse CD107a (65050-1-Ig, Clone: 1D4B) (red) or 0.50 ug isotype control antibody (blue), and Fluorescein (FITC)-conjugated Affinipure Goat Anti-Rat IgG(H+L) with dilution of 1:1000. Cells were fixed with 90% MeOH.

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).