

For Research Use Only

# Anti-mouse CD107a (1D4B)

Catalog Number: 65050-1-Ig



## Basic Information

<b>Catalog Number:</b> 65050-1-Ig	<b>GenBank Accession Number:</b> BC006785	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 500ug, Concentration: 0.5 mg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 16783	<b>CloneNo.:</b> 1D4B
<b>Source:</b> Rat	<b>Full Name:</b> lysosomal-associated membrane protein 1	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2a		

## Applications

<b>Tested Applications:</b> FC, IF, ELISA	<b>Positive Controls:</b> IF : NIH/3T3 cells,
<b>Species Specificity:</b> 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).

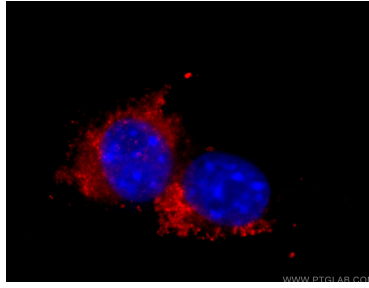
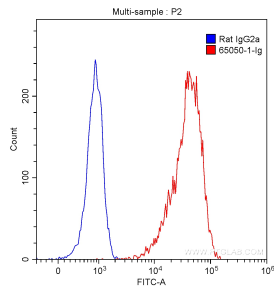
## Storage

**Storage:**  
Store at 2-8°C.  
**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



1X10<sup>6</sup> 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).