

For Research Use Only

# FITC Anti-Mouse CD107a / LAMP1 (1D4B)



Catalog Number: **FITC-65050**

2 Publications

## Basic Information

<b>Catalog Number:</b> FITC-65050	<b>GenBank Accession Number:</b> BC006785	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 500ug, 0.5 mg/ml	<b>GeneID (NCBI):</b> 16783	<b>CloneNo.:</b> 1D4B
<b>Source:</b> Rat	<b>UNIPROT ID:</b> P11438	<b>Excitation/Emission maxima wavelengths:</b> 494 nm / 520 nm
<b>Isotype:</b> IgG2a, kappa	<b>Full Name:</b> lysosomal-associated membrane protein 1	

## Applications

**Tested Applications:**  
FC (Intra)

**Cited Applications:**  
FC

**Species Specificity:**  
Mouse

**Cited Species:**  
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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuji Huang	37529050	Front Immunol	FC
Mina Yang	36944334	Immunity	FC

## Storage

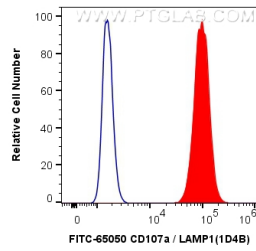
**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.1% sodium azide.

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



1X10<sup>6</sup> NIH/3T3 cells were intracellularly stained with 4  $\mu$ l FITC Anti-Mouse CD107a / LAMP1 (FITC-65050, Clone:1D4B) (red), or Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).