

For Research Use Only

# CoraLite® Plus 750 Anti-Mouse CD107a / LAMP1 (1D4B)



Catalog Number: CL750-65050

## Basic Information

Catalog Number: CL750-65050	GenBank Accession Number: BC006785	Purification Method: Affinity purification
Size: 100ug, 500 µg/ml	GeneID (NCBI): 16783	CloneNo.: 1D4B
Source: Rat	UNIPROT ID: P11438	Excitation/Emission maxima wavelengths: 755 nm / 780 nm
Isotype: IgG2a, kappa	Full Name: lysosomal-associated membrane protein 1	

## Applications

Tested Applications:  
FC (Intra)

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. Avoid exposure to light. 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:

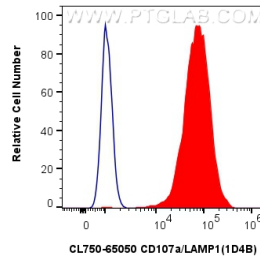
T: 4006900926

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W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1X10<sup>6</sup> NIH/3T3 cells were intracellularly stained with 0.5 ug CoraLite® Plus 750 Anti-Mouse CD107a / LAMP1 (CL750-65050, Clone:1D4B) (red), or 0.5 ug CoraLite® Plus 750 Rat IgG2a Isotype Control (2A3) (CL750-65209, Clone: 2A3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).