

For Research Use Only

# CoraLite® Plus 555 Anti-Human CD107a / LAMP1 (H4A3) Mouse IgG2a Recombinant Antibody

Catalog Number: CL555-65596



## Basic Information

Catalog Number:

CL555-65596

Concentration:

100 tests, 5 µl/test

Source:

Mouse

Isotype:

IgG2a

GenBank Accession Number:

BC006345

GeneID (NCBI):

3916

ENSEMBL Gene ID:

ENSG00000185896

UNIPROT ID:

P11279

Full Name:

lysosomal-associated membrane protein 1

Calculated MW:

45 kDa

Purification Method:

Protein A purification

CloneNo.:

H4A3

Recommended Dilutions:

FC (Intra): 5 µl per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

554 nm / 570 nm

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra): Jurkat 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<sup>+</sup> 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 and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:

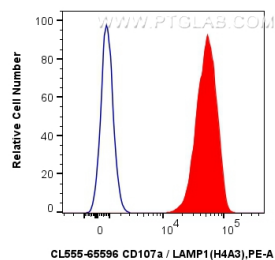
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

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

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## Selected Validation Data



1x10<sup>6</sup> Jurkat cells were intracellularly stained with 5 ul CoraLite® Plus 555 Anti-Human CD107a / LAMP1 (H4A3) Mouse IgG2a RecAb (CL555-65596, Clone: H4A3) (red) or CoraLite® Plus 555 Mouse IgG2a Isotype Control (C1.18.4) (CL555-65208, Clone: C1.18.4) (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).