

For Research Use Only

# CoraLite®594 Anti-Human CD107a (H4A3)



Catalog Number: CL594-65051

## Basic Information

**Catalog Number:**

CL594-65051

**Size:**

100 tests, 5 µl/test

**Source:**

Mouse

**Isotype:**

IgG1

**GenBank Accession Number:**

BC006345

**GeneID (NCBI):**

3916

**Full Name:**

lysosomal-associated membrane protein 1

**Purification Method:**

Protein G purification

**CloneNo.:**

H4A3

**Recommended Dilutions:**

IF 1:200-1:800

**Excitation/Emission maximum wavelengths:**

593 nm/614 nm

## Applications

**Tested Applications:**

IF, FC

**Species Specificity:**

Human

**Positive Controls:**

IF: HeLa 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+ 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.

**Storage Buffer:**

PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

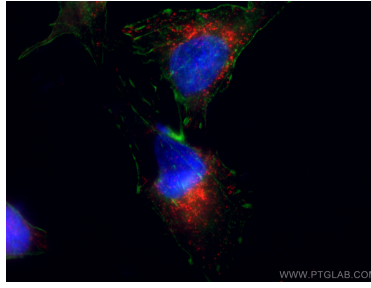
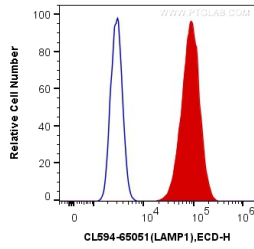
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## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 5 ul CoraLite@594 Anti-Human CD107a (CL594-65051, Clone: H4A3) (red), or Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite@594-conjugated CD107a antibody (CL594-65051, Clone: H4A3) at dilution of 1:400. F-actin was stained using CL488-phalloidin (green) and DNA was stained by DAPI (blue).