

# CoraLite®594 Anti-Human CD107b / LAMP2 (H4B4)

Catalog Number: **CL594-65053**

## Basic Information

**Catalog Number:**

CL594-65053

**Size:**

100 tests, 5 µl / test

**Source:**

Mouse

**Isotype:**

IgG1, kappa

**GenBank Accession Number:**

BC002965

**GeneID (NCBI):**

3920

**ENSEMBL Gene ID:**

ENSG00000005893

**UNIPROT ID:**

P13473

**Full Name:**

lysosomal-associated membrane protein 2

**Calculated MW:**

45 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

H4B4

**Recommended Dilutions:**

IF 1:50-1:500

**Excitation/Emission maxima wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

FC (Intra), IF/ICC

**Species Specificity:**

Human

**Positive Controls:**

IF : HeLa cells,

## Background Information

LAMP2 (CD107b) is a Lysosomal membrane glycoprotein. LAMP2 is extensively glycosylated with asparagine-linked oligosaccharides which protect it from intracellular proteolysis (PMID: 10521503). Although LAMP-2 is localized primarily in the endosome-lysosomal membrane of cells, it is also found on the plasma membrane under certain circumstances, e.g., after platelet activation, during granulocytic differentiation and activation, and in some tumor cells (PMID: 12221139). LAMP is involved in lysosomal stability and autophagy (PMID: 12221139). This glycoprotein provides selectins with carbohydrate ligands. LAMP2 may play a role in tumor cell metastasis (PMID 9426697).

## Storage

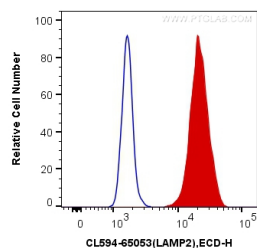
**Storage:**

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

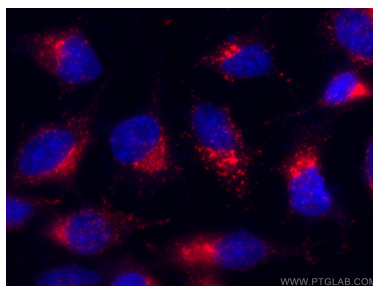
**Storage Buffer:**

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

## Selected Validation Data



1X10<sup>6</sup> Jurkat cells were intracellularly stained with 5  $\mu$ l CoraLite®594 Anti-Human CD107b (CL594-65053, Clone:H4B4) (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 CD107b antibody (CL594-65053, Clone: H4B4) at dilution of 1:50.