

For Research Use Only

# Anti-Human CD107b / LAMP2 (H4B4)

Catalog Number: 65053-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 65053-1-Ig	<b>GenBank Accession Number:</b> BC002965	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug, 0.5 mg/ml	<b>GeneID (NCBI):</b> 3920	<b>CloneNo.:</b> H4B4
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000005893	<b>Recommended Dilutions:</b> IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG1, kappa	<b>UNIPROT ID:</b> P13473	
	<b>Full Name:</b> lysosomal-associated membrane protein 2	
	<b>Calculated MW:</b> 45 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra)	<b>Positive Controls:</b> IF/ICC : MCF-7 cells, U-251 cells
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuna Amemiya	39716490	J Biol Chem	IF

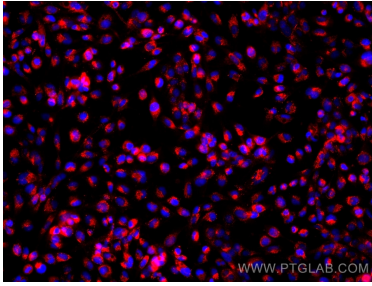
## Storage

**Storage:**  
Store at 2-8°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide.

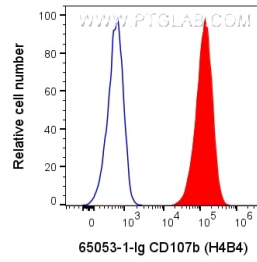
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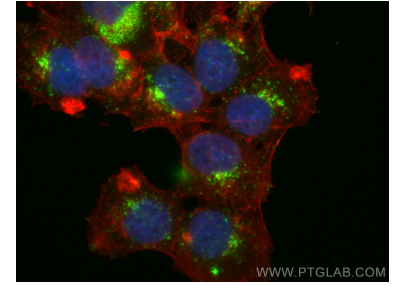
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using CD107b / LAMP2 antibody (65053-1-Ig, Clone: H4B4) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM004).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug Anti-Human CD107b / LAMP2 (65053-1-Ig, Clone:H4B4) and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or Mouse IgG1 Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Intracellular Staining Permeabilization Wash Buffer.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CD107b / LAMP2 antibody (65053-1-Ig, Clone: H4B4) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).