For Research Use Only

PE Anti-Human CD107b / LAMP2 (H4B4)

Catalog Number:PE-65053 1 Publications

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
PE-65053

Concentration:
100tests, 5 ul/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:
Affinity purification

CloneNo.:
H4B4

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 5 ul per 10^6 cells in 100 μl suspension

Excitation/Emission maxima wavelengths:
496 nm, 565 nm / 578 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Species Specificity:
human

Positive Controls:

IF/ICC : HeLa cells,

FC (Intra) : Jurkat 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).

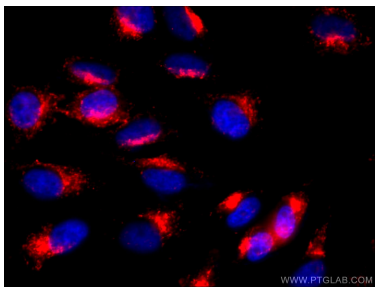
Notable Publications

Author	Pubmed ID	Journal	Application
Chang Qu	39118372	ACS Nano	

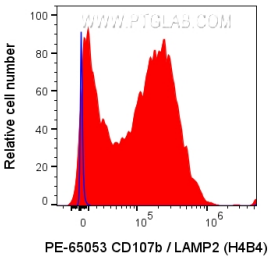
Storage

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

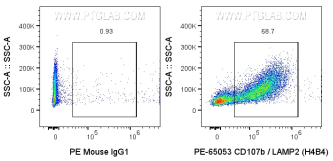
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PE-65053 (CD107b antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10^6 Jurkat cells were intracellularly stained with 5 ul PE Anti-Human CD107b / LAMP2 (PE-65053, Clone: H4B4) (red) or PE Mouse IgG1 Isotype Control (PE-65124, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



1x10^6 Jurkat cells were intracellularly stained with 5 ul PE Anti-Human CD107b / LAMP2 (PE-65053, Clone: H4B4) or PE Mouse IgG1 Isotype Control (PE-65124, Clone: MOPC-21). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).