For Research Use Only

CoraLite®594 Anti-Human CD107a / LAMP1 (H4A3)

Catalog Number:CL594-65051

proteintech®
Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL594-65051

Concentration:
100tests, 5 ul/test

Source:
Mouse

Isotype:
IgG1, kappa

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 G purification

CloneNo.:
H4A3

Recommended Dilutions:
IF/ICC: 1:200-1:800
FC (Intra): 5 ul per 10^6 cells in 100 μl suspension

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Species Specificity:
human

Positive Controls:

IF/ICC : HeLa cells,

FC (Intra) : 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. 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:
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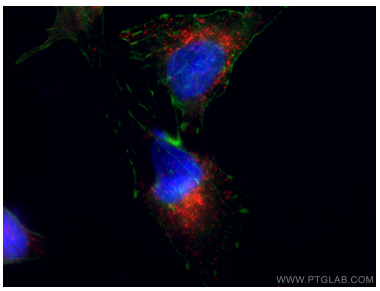
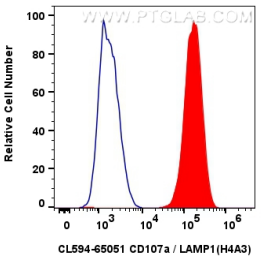
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



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).



1x10^6 HeLa cells were intracellularly stained with 5 ul CoraLite®594 Anti-Human CD107a / LAMP1 (CL594-65051, Clone:H4A3)(red) or CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.