

For Research Use Only

CoraLite® Plus 488 Anti-Human CD107a / LAMP1 Rabbit scFv Antibody

Catalog Number: CL488-SF98266-2



Basic Information

Catalog Number:
CL488-SF98266-2

Source:
Rabbit

Type:
scFv

Immunogen Catalog Number:
EG2611

GenBank Accession Number:
NM_005561.4

GeneID (NCBI):
3916

ENSEMBL Gene ID:
ENSG00000185896

Full Name:
lysosomal-associated membrane
protein 1

Calculated MW:
45 kDa

Purification Method:
Affinity purification

CloneNo.:
242116E8

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC: 0.25 ug per 10⁶ cells in a 100 µl
suspension

Excitation/Emission maxima
wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, FC

Species Specificity:
human

Positive Controls:

IF/ICC : HeLa cells,

FC : Jurkat 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:

50mM HEPES, 150mM NaCl, 5mM EDTA, 0.1% CHAPS, 10% Sucrose and 0.1% Proclin300, pH7.3

For technical support and original validation data for this product please contact:

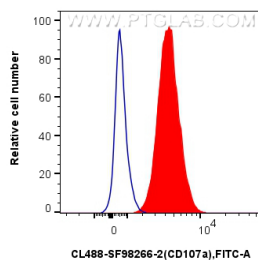
T: 4006900926

E: Proteintech-CN@ptglab.com

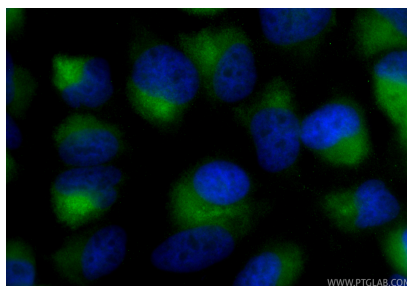
W: ptgcn.com

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Selected Validation Data



1x10⁶ Jurkat cells were surface stained with 0.25 ug CoraLite® Plus 488 Anti-Human CD107a / LAMP1 Rabbit scFv Antibody (CL488-SF98266-2, Clone: 242116E8) (red) or unstained (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 Anti-Human CD107a / LAMP1 Rabbit scFv Antibody (CL488-SF98266-2, Clone: 242116E8) at dilution of 1:200.