

For Research Use Only

CoraLite® Plus 647 Anti-Human CD107a / LAMP1 Rabbit scFv Antibody

Catalog Number: CL647-SF98266-2



Basic Information

Catalog Number: CL647-SF98266-2	GenBank Accession Number: NM_005561.4	Purification Method: Affinity purification
Source: Rabbit	GeneID (NCBI): 3916	CloneNo.: 242116E8
Type: scFv	ENSEMBL Gene ID: ENSG00000185896	Recommended Dilutions: IF/ICC: 1:50-1:500
Immunogen Catalog Number: EG2611	Full Name: lysosomal-associated membrane protein 1	FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension
	Calculated MW: 45 kDa	Excitation/Emission maxima wavelengths: 654 nm / 674 nm

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : HeLa cells,
Species Specificity: human	FC (Intra) : 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:

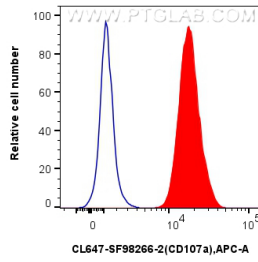
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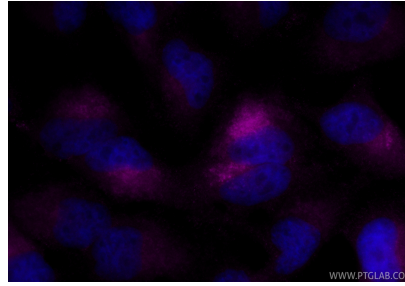
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Selected Validation Data



1×10^6 Jurkat cells were intracellularly stained with 0.25 μ g CoraLite® Plus 647 Anti-Human CD107a / LAMP1 Rabbit scFv Antibody (CL647-SF98266-2, Clone: 242116E8) (red) or 0.25 μ g CoraLite® Plus 647 Rabbit scFv Isotype Control (CL647-SF98136, Clone: 240953C9) (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 647 Anti-Human CD107a / LAMP1 Rabbit scFv Antibody (CL647-SF98266-2, Clone: 242116E8) at dilution of 1:200.