

For Research Use Only

CoraLite® Plus 647 Anti-Human CD107a / LAMP1 (H4A3)

Catalog Number: CL647-65051 **2 Publications**



Basic Information

Catalog Number: CL647-65051	GenBank Accession Number: BC006345	Purification Method: Protein G purification
Size: 100tests , 5 µl/test	GeneID (NCBI): 3916	CloneNo.: H4A3
Source: Mouse	ENSEMBL Gene ID: ENSG00000185896	Recommended Dilutions: IF/ICC 1:200-1:800
Isotype: IgG1, kappa	UNIPROT ID: P11279	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
	Full Name: lysosomal-associated membrane protein 1	
	Calculated MW: 45 kDa	

Applications

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

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Qiu Pan	38253527	Nat Commun	IF
Zhensheng Zhang	37309040	J Zhejiang Univ Sci B	IF

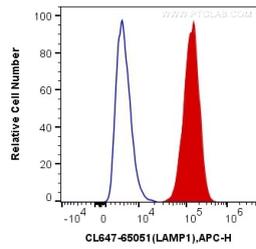
Storage

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

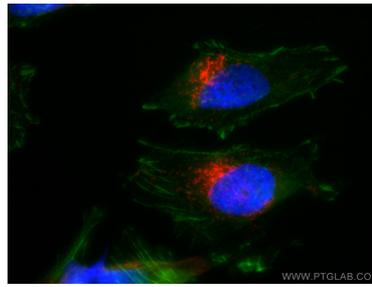
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



1X10⁶ HeLa cells were intracellularly stained with 5 ul CoraLite® Plus 647 Anti-Human CD107a (CL647-65051, Clone:H4A3) (red), or Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite® Plus 647-conjugated CD107a antibody (CL647-65051, Clone: H4A3) at dilution of 1:400. F-actin was stained using CL488-phalloidin (green) and DNA was stained by DAPI (blue).