

For Research Use Only

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



Catalog Number:CL594-65051

Basic Information

Catalog Number: CL594-65051	GenBank Accession Number: BC006345	Purification Method: Protein G purification
Size: 100tests , 5 µl/test	GeneID (NCBI): 3916	CloneNo.: H4A3
Source: Mouse	Full Name: lysosomal-associated membrane protein 1	Recommended Dilutions: IF 1:200-1:800
Isotype: IgG1		Excitation/Emission maxima wavelengths: 593 nm / 614 nm

Applications

Tested Applications: IF, FC	Positive Controls: IF : HeLa cells,
Species Specificity: 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).

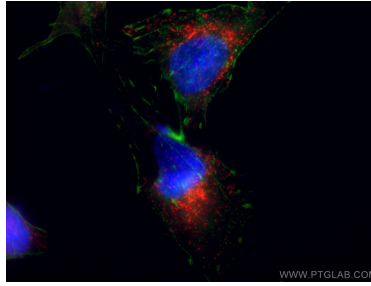
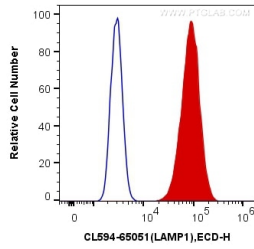
Storage

Storage:
Store at 2-8°C. Avoid exposure to light.
Storage Buffer:
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

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) E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HeLa cells were intracellularly stained with 5 ul CoraLite@594 Anti-Human CD107a (CL594-65051, 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@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).