

For Research Use Only

CoraLite® Plus 488 Anti-Mouse CD107a / LAMP1 (1D4B)



Catalog Number: CL488-65050

1 Publications

Basic Information

Catalog Number: CL488-65050	GenBank Accession Number: BC006785	Purification Method: Affinity purification
Size: 100ug , 500 µg/ml	GeneID (NCBI): 16783	CloneNo.: 1D4B
Source: Rat	UNIPROT ID: P11438	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG2a, kappa	Full Name: lysosomal-associated membrane protein 1	Excitation/Emission maxima wavelengths: 493 nm / 522 nm

Applications

Tested Applications: IF, FC (Intra)	Positive Controls: IF/ICC : NIH/3T3 cells,
Species Specificity: Mouse	

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
Bolin Zheng	37223476	Research (Wash D C)	

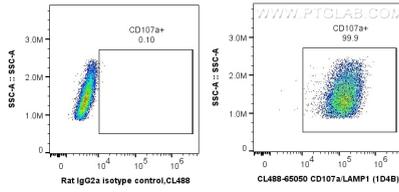
Storage

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

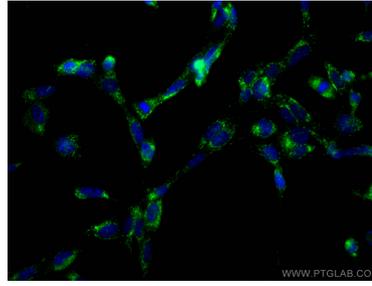
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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Selected Validation Data



1X10⁶ NIH/3T3 cells were intracellularly stained with 0.5 ug CoraLite® Plus 488 Anti-Mouse CD107a / LAMP1 (CL488-65050, Clone:1D4B) or 0.5 ug CoraLite® Plus 488 Rat IgG2a Isotype Control (2A3). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using CoraLite® Plus 488 CD107a antibody (CL488-65050, Clone: 1D4B) at dilution of 1:400.