

For Research Use Only



CoraLite® Plus 405 Anti-Human CD107a / LAMP1 (H4A3) Mouse IgG2a Recombinant Antibody

Catalog Number:CL405-65596

Basic Information

Catalog Number: CL405-65596	GenBank Accession Number: BC006345	Purification Method: Protein A purification
Concentration: 100tests, 5 ul/test	GeneID (NCBI): 3916	CloneNo.: H4A3
Source: Mouse	ENSEMBL Gene ID: ENSG00000185896	Recommended Dilutions: FC (Intra): 5 ul per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG2a	UNIPROT ID: P11279	Excitation/Emission maxima wavelengths: 399 nm / 422 nm
	Full Name: lysosomal-associated membrane protein 1	
	Calculated MW: 45 kDa	

Applications

Tested Applications: FC (Intra)	Positive Controls: FC (Intra) : Jurkat 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).

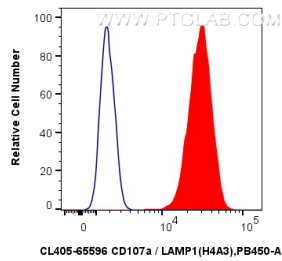
Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide and 0.5% BSA, 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 intracellularly stained with 5 μ l CoraLite® Plus 405 Anti-Human CD107a / LAMP1 (H4A3) Mouse IgG2a RecAb (CL405-65596, Clone: H4A3) (red) or CoraLite® Plus 405 Mouse IgG2a Isotype Control (C1.18.4) (CL405-65208, Clone: C1.18.4) (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).