

For Research Use Only

Anti-Human CD107a / LAMP1 (H4A3)

Catalog Number: 65051-1-Ig **8 Publications**



Basic Information

Catalog Number: 65051-1-Ig	GenBank Accession Number: BC006345	Purification Method: Protein G purification
Size: 100ug, 0.5 mg/ml	GeneID (NCBI): 3916	CloneNo.: H4A3
Source: Mouse	ENSEMBL Gene ID: ENSG00000185896	Recommended Dilutions: WB 1:1000-1:8000 IF/ICC 1:50-1:500
Isotype: IgG1, kappa	UNIPROT ID: P11279	
	Full Name: lysosomal-associated membrane protein 1	
	Calculated MW: 45 kDa	
	Observed MW: 100-120 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra)	Positive Controls: WB : HEK-293 cells, HeLa cells, Jurkat cells
Cited Applications: WB, IF	IF/ICC : HeLa cells,
Species Specificity: human	
Cited Species: human, monkey	

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
Jia-min Yan	34747299	Autophagy	WB,IF
Zhaozhong Liao	36078115	Cells	IF
Kaori Mukai	39434219	MAbs	IF

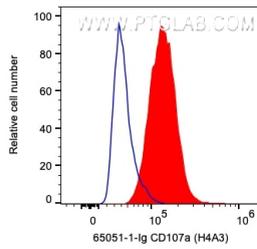
Storage

Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide

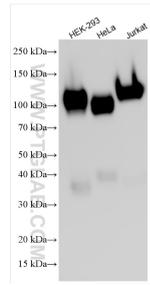
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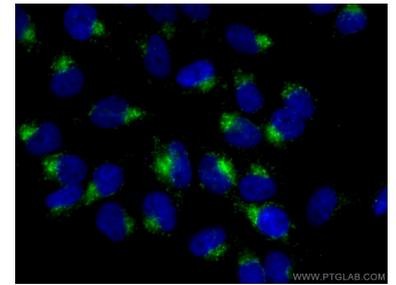
Selected Validation Data



1X10⁶ HeLa cells were intracellularly stained with 0.2 ug Anti-Human CD107a / LAMP1 (65051-1-Ig, Clone:H4A3) and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various lysates were subjected to SDS PAGE followed by western blot with 65051-1-Ig (CD107a / LAMP1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 65051-1-Ig (CD107a antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).