

For Research Use Only

APC Anti-Mouse CD107a / LAMP1 (1D4B)



Catalog Number: APC-65050

1 Publications

Basic Information

Catalog Number: APC-65050	GenBank Accession Number: BC006785	Purification Method: Affinity purification
Size: 100ug, 0.1 mg/ml	GeneID (NCBI): 16783	CloneNo.: 1D4B
Source: Rat	Full Name: lysosomal-associated membrane protein 1	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a, kappa		Excitation/Emission maxima wavelengths: 650 nm / 660 nm

Applications

Tested Applications: FC (Intra), IF	Positive Controls: IF : NIH/3T3 cells,
Cited Applications: IF	
Species Specificity: Mouse	
Cited Species: 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
Lei Wang	37979663	Pharmacol Res	IF

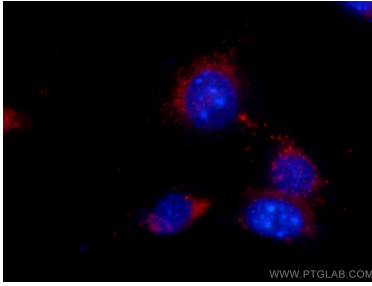
Storage

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 a stabilizer.

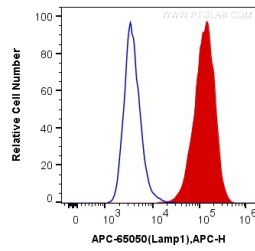
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using APC-65050 (CD107a antibody) at dilution of 1:100.



1X10⁶ NIH/3T3 cells were intracellularly stained with 10 μ l APC Anti-Mouse CD107a (APC-65050, Clone:1D4B) (red), or Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).