

For Research Use Only

FITC Plus Anti-Mouse CD107a / LAMP1 (1D4B)

Catalog Number: FITC-65050

3 Publications



Basic Information

Catalog Number:

FITC-65050

Size:

500ug, 0.5 mg/ml

Source:

Rat

Isotype:

IgG2a, kappa

GenBank Accession Number:

BC006785

GeneID (NCBI):

16783

UNIPROT ID:

P11438

Full Name:

lysosomal-associated membrane protein 1

Purification Method:

Affinity purification

CloneNo.:

1D4B

Excitation/Emission maxima wavelengths:

495 nm / 524 nm

Applications

Tested Applications:

FC (Intra)

Cited Applications:

FC

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
Yanqin Zhang	39043825	Nat Nanotechnol	FC
Yuji Huang	37529050	Front Immunol	FC
Mina Yang	36944334	Immunity	FC

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.

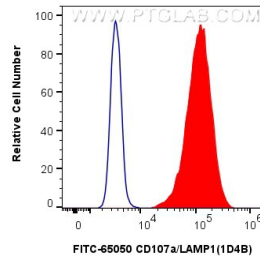
For technical support and original validation data for this product please contact:

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Selected Validation Data



1x10⁶ NIH/3T3 cells were intracellularly stained with 1 ug FITC Anti-Mouse CD107a / LAMP1 (FITC-65050, Clone:1D4B) (red) or 1 ug FITC Rat IgG2a Isotype Control (2A3) (FITC-65209, Clone: 2A3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).