

For Research Use Only

Anti-Human CD107a / LAMP1 Mouse scFv Antibody

Catalog Number: SF65596-1-MR



Basic Information

Catalog Number:

SF65596-1-MR

Source:

Mouse

Type:

scFv

GenBank Accession Number:

BC006345

GeneID (NCBI):

3916

ENSEMBL Gene ID:

ENSG00000185896

Full Name:

lysosomal-associated membrane protein 1

Calculated MW:

45 kDa

Purification Method:

Affinity purification

CloneNo.:

H4A3

Recommended Dilutions:

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra) : Jurkat cells,

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. Stable for one year after shipment.

Storage Buffer:

50mM HEPES, 150mM NaCl, 5mM EDTA, 0.1% CHAPS, 10% Sucrose and 0.1% Proclin 300, pH7.3

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

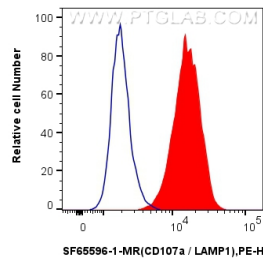
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Selected Validation Data



1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug Anti-Human CD107a / LAMP1 Mouse scFv Antibody (SF65596-1-MR, Clone: H4A3) (red) or Mouse IgG2a Isotype Control (C1.18.4) (blue), and PE Anti-6^{His} His-Tag Rabbit RecAb (PE-FcA98450, Clone: 251107A1). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).