

FcZero-rAb[®] CoraLite[®] Plus 488 Anti-Human CD107a / LAMP1 Rabbit Recombinant Antibody

Catalog Number: CL488-FcA98266-2

Basic Information

Catalog Number:
CL488-FcA98266-2Concentration:
100 tests, 5 µl/testSource:
RabbitIsotype:
IgGImmunogen Catalog Number:
EG2611GenBank Accession Number:
NM_005561.4GeneID (NCBI):
3916ENSEMBL Gene ID:
ENSG00000185896UNIPROT ID:
P11279-1
Full Name:
lysosomal-associated membrane
protein 1Calculated MW:
45 kDaPurification Method:
Protein A purificationCloneNo.:
242116E8Recommended Dilutions:
FC (Intra): 5 µl per 10⁶ cells in a 100
µl suspensionExcitation/Emission maxima
wavelengths:
493 nm / 522 nm

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

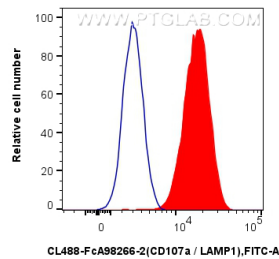
Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

Selected Validation Data



1x10⁶ Jurkat cells were intracellularly stained with 5 ul CoraLite® Plus 488 Anti-Human CD107a / LAMP1 Rabbit RecAb (CL488-FcA98266-2, Clone: 242116E8) (red) or FcZero-rAb® CoraLite® Plus 488 Rabbit IgG Isotype Control Recombinant Antibody (CL488-FcA98136, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).