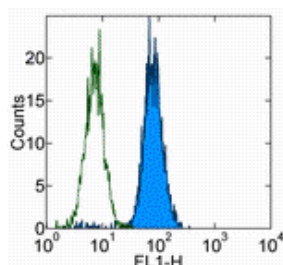


Anti-Human CD107a (LAMP-1) FITC

Catalog Number: 11-1079

Also Known As: LAMP1, lysosomal-associated membrane protein 1

RUO: For Research Use Only. Not for use in diagnostic procedures.



Intracellular staining of the Jurkat cell line with 0.5 μ g of Mouse IgG1 K Isotype Control FITC (cat. 11-4714) (open histogram) or 0.5 μ g of Anti-Human CD107a (LAMP-1) FITC (filled histogram). Total cells were used for analysis.

Product Information

Contents: Anti-Human CD107a (LAMP-1) FITC


REF Catalog Number: 11-1079

Clone: eBioH4A3

Concentration: 5 μ L (0.5 μ g)/test


Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Contains sodium azide

Description

The eBioH4A3 monoclonal antibody reacts with human CD107a, also known as lysosomal-associated membrane protein-1 (LAMP-1). CD107a is a highly glycosylated protein of approximately 110kDa. It is predominantly expressed intracellularly in the lysosomal/endosomal membrane in nearly all cells. CD107a is transiently expressed on the cell surface of degranulating cytolytic T cells, and is also upregulated on the surface of activated platelets and some cancer cells.

Applications Reported

This eBioH4A3 antibody has been reported for use in intracellular staining followed by flow cytometric analysis. It has also been reported for use in surface staining in a flow cytometric based degranulation assay.

Applications Tested

This eBioH4A3 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of Jurkat cells. This can be used at 5 μ L (0.5 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

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Betts MR, Koup RA. Detection of T-cell degranulation: CD107a and b. *Methods Cell Biol.* 2004;75:497-512. (H4A3, FC, degranulation assay, PubMed)

Grutzkau A, Smorodchenko A, Lippert U, Kirchhof L, Artuc M, Henz BM. LAMP-1 and LAMP-2, but not LAMP-3, are reliable markers for activation-induced secretion of human mast cells. *Cytometry A.* 2004 Sep;61(1):62-8. (H4A3, FC, PubMed)

Sarafian V, Jadot M, Foidart JM, Letesson JJ, Van den Brule F, Castronovo V, Wattiaux R, Coninck SW. Expression of Lamp-1 and Lamp-2 and their interactions with galectin-3 in human tumor cells. *Int. J. Cancer.* 1998 Jan; 75(1):105-111. (H4A3, FC, IHC, PubMed)

Carlsson SR, Roth J, Piller F, Fukuda M. Isolation and characterization of human lysosomal membrane glycoproteins, h-lamp-1 and h-lamp-2. Major sialoglycoproteins carrying polylectosaminoglycan. *J Biol Chem.* 1988 Dec 15;263(35):18911-9.

Related Products

11-1078 Anti-Human CD107b (LAMP-2) FITC (eBioH4B4 (H4B4))

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.1)
88-8823 Fixation & Permeabilization Buffers

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