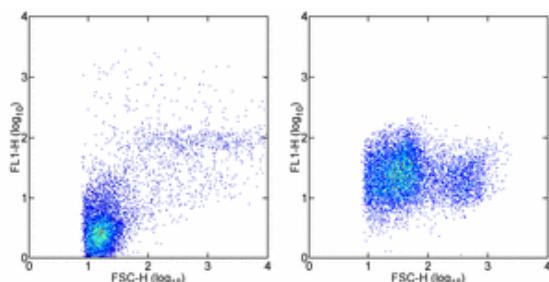


Anti-Human CD107a (LAMP-1) Alexa Fluor® 488

Catalog Number: 53-1079

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

RUO: For Research Use Only



Left: 3-day PHA-stimulated normal human peripheral blood cells were surface stained with 0.125 µg of Anti-Human CD107a (LAMP-1) Alexa Fluor® 488. Total viable cells were used for analysis. Right: Normal human peripheral blood cells were stained intracellularly with 0.125 µg of Anti-Human CD107a (LAMP-1) Alexa Fluor® 488. Total cells were used for analysis.

Product Information

Contents: Anti-Human CD107a (LAMP-1) Alexa Fluor® 488

REF Catalog Number: 53-1079

Clone: eBioH4A3

Concentration: 5 µl (0.125 µg)/test

Host/Isotype: Mouse IgG1, κ

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.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains 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 normal human PBMCs. This can be used at 5 µl (0.125 µg)/per test. A test is defined as the amount (µg)/test of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ 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

53-1071 Anti-Mouse CD107a (LAMP-1) Alexa Fluor® 488 (eBio1D4B (1D4B))

53-1078 Anti-Human CD107b (LAMP-2) Alexa Fluor® 488 (eBioH4B4 (H4B4))
53-4714 Mouse IgG1 K Isotype Control Alexa Fluor® 488

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