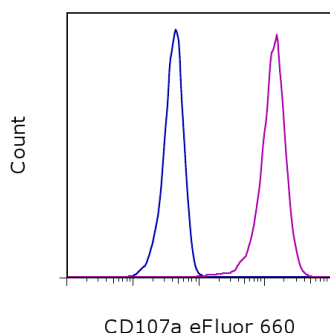


Anti-Human CD107a (LAMP-1) eFluor® 660 (Alexa Fluor® 647 Replacement)

Catalog Number: 50-1079

Also known as: LAMP1, lysosomal-associated membrane protein 1

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



Intracellular staining of Jurkat cells with Mouse IgG1 K Isotype Control eFluor® 660 (cat. 50-4714) (blue histogram) or Anti-Human CD107a (LAMP-1) eFluor® 660 (purple histogram). Total cells were used for analysis.

Product Information

Contents: Anti-Human CD107a (LAMP-1) eFluor® 660 (Alexa Fluor® 647 Replacement)

Catalog Number: 50-1079

Clone: eBioH4A3

Concentration: 5 µL (0.125 µg)/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.

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 H4A3 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This eBioH4A3 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of the Jurkat cell line. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) 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.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Huynh C, Andrews NW. The small chemical vacuolin-1 alters the morphology of lysosomes without inhibiting Ca²⁺-regulated exocytosis. EMBO Rep. 2005 Sep;6(9):843-7. (**H4A3**, FC, IHC, PubMed)

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

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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 poly(lactosaminoglycan). *J Biol Chem*. 1988 Dec 15;263(35):18911-9.

Related Products

50-4714 Mouse IgG1 K Isotype Control eFluor® 660 (P3.6.2.8.1)

65-0863 Fixable Viability Dye eFluor® 450

88-8823 Fixation & Permeabilization Buffers