

CD107a (LAMP-1) Monoclonal Antibody (eBioH4A3), eFluor 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Artificial Control, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioH4A3
Conjugate	eFluor® 450
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574035

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	3 Publications
Immunofluorescence (IF)	-	3 Publications

Product Specific Information

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.

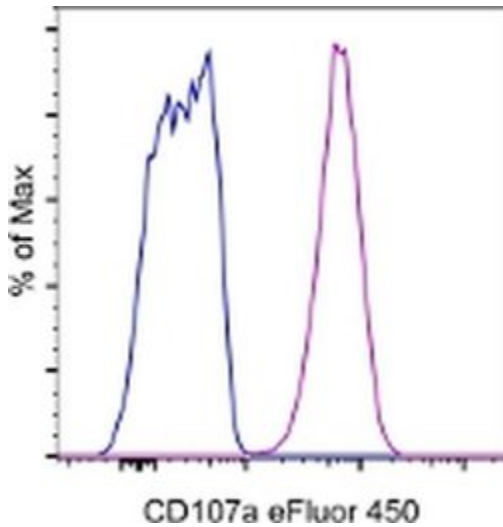
Applications Tested: This eBioH4A3 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of Jurkat cells using the Intracellular Fixation and Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol for (cytoplasmic) intracellular proteins located under the Resources Tab online. This can be used at 5 µL (0.25 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® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD107a (LAMP-1) Monoclonal Antibody (eBioH4A3), eFluor 450, eBioscience™



CD107a (LAMP-1) Antibody (48-1079-42) in Flow

Intracellular staining of Jurkat cells with Mouse IgG1 K Isotype Control eFluor® 450 (Product # 48-4714-82) (blue histogram) or Anti-Human CD107a (LAMP-1) eFluor® 450 (purple histogram) using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Total viable cells, as determined by Fixable Viability Dye eFluor® 660 (Product # 65-0864-14), were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Immunofluorescence (3)

Traffic (Copenhagen, Denmark)

Munc18-2 is required for Syntaxin 11 Localization on the Plasma Membrane in Cytotoxic T-Lymphocytes.

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 48-1079-42) in Immunofluorescence"

Authors: Dieckmann NM, Hackmann Y, Aricò M, Griffiths GM

Species
Not Applicable

Dilution
Not Cited

Year
2015

The Journal of clinical investigation

Targeting cancer metabolism by simultaneously disrupting parallel nutrient access pathways.

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 48-1079-42) in Immunofluorescence"

Authors: Kim SM, Roy SG, Chen B, Nguyen TM, McMonigle RJ, McCracken AN, Zhang Y, Kofuji S, Hou J, Selwan E, Finicle BT, Nguyen TT, Ravi A, Ramirez MU, Wiher T, Guenther GG, Kono M, Sasaki AT, Weisman LS, Potma EO, Tromberg BJ, Edwards RA, Hanessian S, Edinger AL

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2016

[View more IF references on thermofisher.com](#)

Flow Cytometry (3)

Oncoimmunology

T cells targeting NY-ESO-1 demonstrate efficacy against disseminated neuroblastoma.

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 48-1079-42) in Flow Cytometry"

Authors: Singh N, Kulikovskaya I, Barrett DM, Binder-Scholl G, Jakobsen B, Martinez D, Pawel B, June CH, Kalos MD, Grupp SA

Species
Not Applicable

Dilution
Not Cited

Year
2021

Nature communications

Complement receptor CD46 co-stimulates optimal human CD8⁺ T cell effector function via fatty acid metabolism.

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 48-1079-42) in Flow Cytometry"

Authors: Arbore G, West EE, Rahman J, Le Friec G, Niyonzima N, Pirooznia M, Tunc I, Pavlidis P, Powell N, Li Y, Liu P, Servais A, Couzi L, Fremeaux-Bacchi V, Placais L, Ferraro A, Walsh PR, Kavanagh D, Afzali B, Lavender P, Lachmann HJ, Kemper C

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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