

CD107a (LAMP-1) Monoclonal Antibody (eBioH4A3), PE-Cyanine5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioH4A3
Conjugate	PE-Cyanine5
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_10547280

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	11 Publications
Functional Assay (FN)	-	1 Publication

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. 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 peripheral blood cells. 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.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

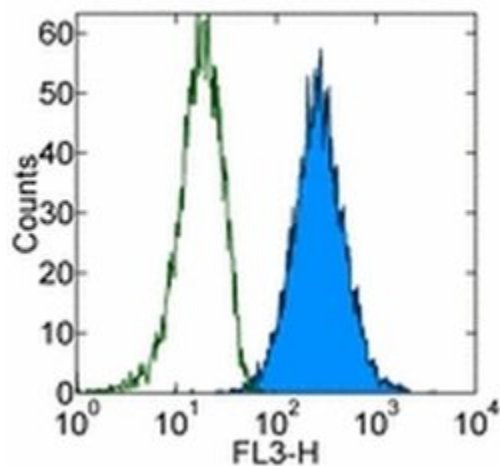
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix

/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD107a (LAMP-1) Monoclonal Antibody (eBioH4A3), PE-Cyanine5, eBioscience™



CD107a (LAMP-1) Antibody (15-1079-42) in Flow

Intracellular staining of Jurkat cell line with 0.25 µg of Mouse IgG1 K Isotype Control PE-Cyanine5 (Product # 15-4714-81) (open histogram) or Anti-Human CD107a (LAMP-1) PE-Cyanine5 (filled histogram). Total cells were used for analysis.

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

12 References

Flow Cytometry (11)

Oncoimmunology

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

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 15-1079-42) 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

PLoS pathogens

HLA-B*27:05 alters immunodominance hierarchy of universal influenza-specific CD8+ T cells.

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 15-1079-42) in Flow Cytometry"

Authors: Sant S, Quiñones-Parra SM, Koutsakos M, Grant EJ, Loudovaris T, Mannering SI, Crowe J, van de Sandt CE, Rimmelzwaan GF, Rossjohn J, Gras S, Loh L, Nguyen THO, Kedzierska K

Species

Not Applicable

Dilution

Not Cited

Year

2020

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

Functional Assay (1)

Vaccines

Activation-induced Markers Detect Vaccine-Specific CD4 T Cell Responses Not Measured by Assays Conventionally Used in Clinical Trials.

"15-1079 was used in Functional assays to compare the use of markers for their sensitivity, specificity and associations with other measures of vaccine immunogenicity and demonstrate these as an additional method of reporting the T cell response to vaccination."

Authors: Bowyer G, Rampling T, Powlson J, Morter R, Wright D, Hill AVS, Ewer KJ

Species

Human

Dilution

1:2000

Year

2018

More applications with references on thermofisher.com

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