CD107a (LAMP-1) Monoclonal Antibody (eBioH4A3), PE-eFluor 610, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-eFluor 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioH4A3
Conjugate	PE-eFluor® 610
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574572

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	5 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 & 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 10^5 to 10^8 cells/test.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochome.

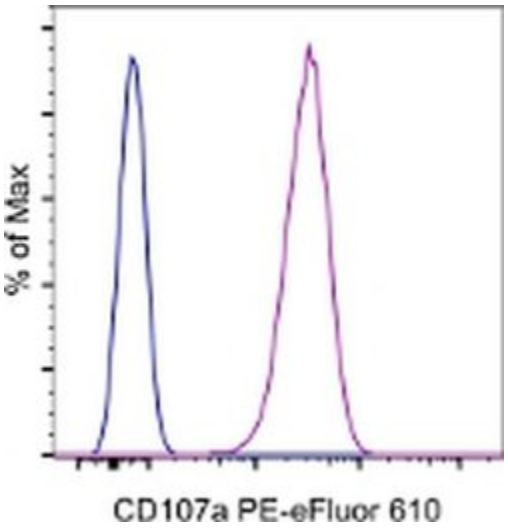
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of 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: 607 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-eFluor 610, eBioscience™



CD107a (LAMP-1) Antibody (61-1079-42) in Flow
Intracellular staining of Jurkat cells with Mouse IgG1 K Isotype Control PE-eFluor® 610 (Product # 61-4714) (blue histogram) or Anti-Human CD107a (LAMP-1) PE-eFluor® 610 (purple histogram) using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824) and protocol. Total viable cells, as determined by Fixable Viability Dye eFluor® 660 (Product # 65-0864), were used for analysis.

View more figures on thermofisher.com

5 References

Flow Cytometry (5)

Oncoimmunology

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

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 61-1079-42) 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 # 61-1079-42) 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

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