

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioH4A3
Conjugate	FITC
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_10853196

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	0.5 µg/mL	4 Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	17 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.

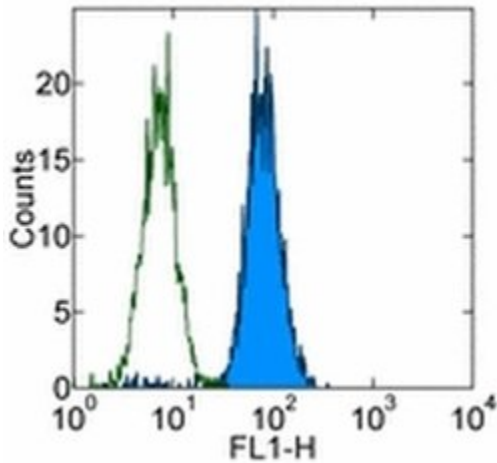
Applications Reported: This eBioH4A3 antibody has been reported for use in intracellular staining followed by flow cytometric analysis. It has also been reported for use in surface staining in a flow cytometric based degranulation assay.

Applications Tested: This eBioH4A3 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of Jurkat cells. This can be used at 5 µL (0.5 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.

Excitation: 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

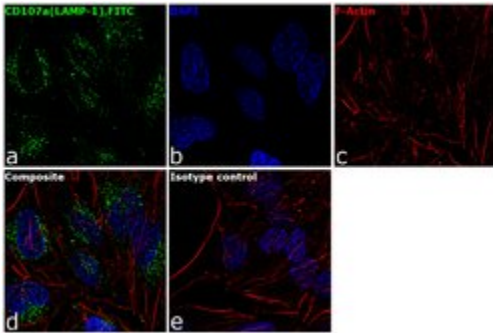
Filtration: 0.2 µm post-manufacturing filtered.

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



CD107a (LAMP-1) Antibody (11-1079-42) in Flow

Intracellular staining of the Jurkat cell line with 0.5 µg of Mouse IgG1 K Isotype Control FITC (Product # 11-4714-42) (open histogram) or 0.5 µg of Anti-Human CD107a (LAMP-1) FITC (filled histogram). Total cells were used for analysis.



CD107a (LAMP-1) Antibody (11-1079-42) in ICC/IF

Immunofluorescence analysis of CD107a (LAMP-1) was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with CD107a (LAMP-1), FITC, Mouse Monoclonal antibody (Product # 11-1079-41) at 0.5 µg/mL in 0.1% BSA and incubated at 4 degree Celsius overnight (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents the isotype control. The images were captured at 60X magnification.

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

21 References

Immunocytochemistry (4)

The Journal of clinical investigation

Targeting cancer metabolism by simultaneously disrupting parallel nutrient access pathways.

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 11-1079-42) 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

Dilution
Not Cited

Year
2016

Cell death & disease

Fucosylation of LAMP-1 and LAMP-2 by FUT1 correlates with lysosomal positioning and autophagic flux of breast cancer cells.

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 11-1079-42) in Immunofluorescence"

Authors: Tan KP,Ho MY,Cho HC,Yu J,Hung JT,Yu AL

Species
Human

Dilution
Not Cited

Year
2016

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

Flow Cytometry (17)

Oncoimmunology

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

"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 11-1079-42) 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

Frontiers in immunology

Highly Variable Sialylation Status of Donor-Specific Antibodies Does Not Impact Humoral Rejection Outcomes.

"11-1079 was used in Flow cytometry/Cell sorting to conclude that DSA sialylation status is highly variable but has not impact on DSA pathogenicity and AMR outcome."

Authors: Barba T,Harb J,Ducreux S,Koenig A,Mathias V,Rabeyrin M,Pouliquen E,Sicard A,Chartoire D,Dugast E,Defrance T,Morelon E,Brouard S,Dubois V,Thaunat O

Species
Human

Dilution
Not Cited

Year
2020

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

More applications with references on thermofisher.com

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