

CD107b (LAMP-2) Monoclonal Antibody (eBioH4B4 (H4B4)), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	eBioH4B4 (H4B4)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_657559

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	3 Publications
Flow Cytometry (Flow)	0.5 µg/test	1 Publication

Product Specific Information

Description: The eBioH4B4 monoclonal antibody reacts with human CD107b, also known as lysosomal-associated membrane protein-2 (LAMP-2). CD107b is a highly glycosylated, type I transmembrane protein of approximately 105 kDa. It is expressed intracellularly in lysosomal/endosomal membranes in nearly all cells. It is also expressed on the surface of degranulating T cells (to a lesser extent than CD107a) and activated platelets as well as some cancer cells. In humans, mutations in CD107b results in a lysosomal glycogen storage disorder, known as Danon disease.

Applications Reported: Purified anti-human CD107b (LAMP-2) has been reported for use in flow cytometric analysis. It has also been reported for use in surface staining in a flow cytometric based degranulation assay. (Fluorochrome conjugated eBioH4B4 (H4B4) is recommended for use in flow cytometry.).

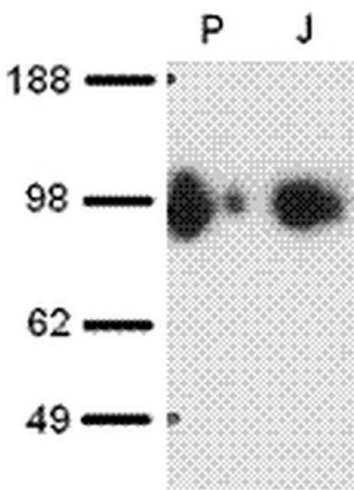
Applications Tested: This eBioH4B4 (H4B4) antibody has been tested by intracellular staining and flow cytometric analysis of Jurkat cell line. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. This antibody has also been tested by immunoblotting at 1 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD107b (LAMP-2) Monoclonal Antibody (eBioH4B4 (H4B4)), eBioscience™



CD107b (LAMP-2) Antibody (14-1078-82) in WB
Normal human peripheral blood cells (P) and Jurkat cell line (J) lysates were immunoblotted with 1 µg/mL of Anti-Human CD107b (LAMP-2) Purified and revealed with Anti-Mouse HRP.

4 References

Western Blot (3)

International journal of molecular sciences Improved Autophagic Flux in Escapers from Doxorubicin-Induced Senescence/Polyploidy of Breast Cancer Cells. "Published figure using CD107b (LAMP-2) monoclonal antibody (Product # 14-1078-82) in Western Blot" Authors: Bojko A, Staniak K, Czarnecka-Herok J, Sunderland P, Dudkowska M, Iiwiska MA, Salmina K, Sikora E	Year 2020 Species Human Dilution 1:500
Biochemistry and biophysics reports Lysosomal membrane permeabilization is involved in oxidative stress-induced apoptotic cell death in LAMP2-deficient iPSCs-derived cerebral cortical neurons. "Published figure using CD107b (LAMP-2) monoclonal antibody (Product # 14-1078-82) in Western Blot" Authors: Law CY, Siu CW, Fan K, Lai WH, Au KW, Lau YM, Wong LY, Ho JCY, Lee YK, Tse HF, Ng KM	Year 2016 Species Human

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

Flow Cytometry (1)

Clinical immunology (Orlando, Fla.) Unexpected heterogeneity of multifunctional T cells in response to superantigen stimulation in humans. "14-1078 was used in Flow cytometry/Cell sorting to investigate the mechanisms by which Staphylococcal enterotoxin B and other superantigens cause toxic shock syndrome." Authors: McArthur MA, Sztein MB	Year 2013 Species Human
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