

# CD107b (LAMP-2) Monoclonal Antibody (eBioABL-93 (ABL-93)), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	eBioABL-93 (ABL-93)
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_657560

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	6 Publications
Immunoprecipitation (IP)	Assay-Dependent	-

## Product Specific Information

**Description:** The eBioABL-93 monoclonal antibody reacts with mouse CD107b, also known as lysosomal-associated membrane protein-2 (LAMP-2). CD107b is a highly glycosylated protein of approximately 120 kDa that is expressed intracellularly in lysosomal membranes. It is also transiently expressed on the surface of cytolytic T cells during degranulation, but to a lesser extent than CD107a. It has been reported that CD107b may be identical to the mouse Mac-3 antigen.

**Applications Reported:** This eBioABL-93 (ABL-93) antibody has been reported for use in intracellular staining followed by flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. It is also reported for use in surface staining in a flow cytometric based degranulation assay. (Fluorochrome conjugated eBioABL-93 (ABL-93) is recommended for use in intracellular flow cytometry.).

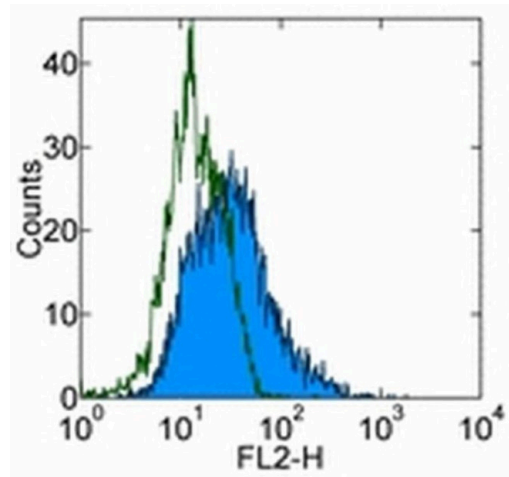
**Applications Tested:** This eBioABL-93 (ABL-93) antibody has been tested by intracellular staining and flow cytometric analysis of mouse thioglycolate-elicited peritoneal exudate cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. 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 (eBioABL-93 (ABL-93)), eBioscience™



**CD107b (LAMP-2) Antibody (14-1072-82) in Flow**  
Intracellular staining of thioglycolate-induced peritoneal-exudate cells (PECs) with 0.25 µg of Rat IgG2a K Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.25 µg of Anti-Mouse CD107b (LAMP-2) Purified (filled histogram) followed by Anti-Rat IgG Biotin (Product # 13-4813-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

7 References

Immunohistochemistry (1)

<b>Nutrients</b>	<b>Year</b> 2017
<b>Butyrate Reduces HFD-Induced Adipocyte Hypertrophy and Metabolic Risk Factors in Obese LDLr<sup>-/-</sup>.Leiden Mice.</b>	<b>Species</b> Mouse
"14-1072 was used in Immunohistochemistry to suggest that dietary butyrate supplementation can counteract high-fat diet-induced detrimental changes in adipose tissue function and metabolic outcomes."	<b>Dilution</b> 1:100
Authors: Pelgrim CE,Franx BAA,Snabel J,Kleemann R,Arnoldussen IAC,Kiliaan AJ	

Flow Cytometry (6)

<b>Journal of extracellular vesicles</b>	<b>Year</b> 2020
<b>Blood concentrations of small extracellular vesicles are determined by a balance between abundant secretion and rapid clearance.</b>	
"Published figure using CD107b (LAMP-2) monoclonal antibody (Product # 14-1072-82) in Flow Cytometry"	
Authors: Matsumoto A,Takahashi Y,Chang HY,Wu YW,Yamamoto A,Ishihama Y,Takakura Y	

<b>PLoS pathogens</b>	<b>Year</b> 2016
<b>Type I Interferon Receptor Deficiency in Dendritic Cells Facilitates Systemic Murine Norovirus Persistence Despite Enhanced Adaptive Immunity.</b>	<b>Species</b> Mouse
"14-1072 was used in Flow cytometry/Cell sorting to study type I interferon signalling in dendritic cells during Murine norovirus infection."	
Authors: Nice TJ,Osborne LC,Tomov VT,Artis D,Wherry EJ,Virgin HW	

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

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