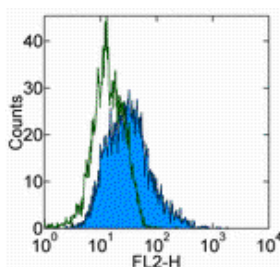


Anti-Mouse CD107b (LAMP-2) Purified

Catalog Number: 14-1072

Also Known As: LAMP2, Lysosomal-associated membrane protein 2

RUO: For Research Use Only. Not for use in diagnostic procedures.



Intracellular staining of thioglycolate-induced peritoneal-exudate cells (PECs) with 0.25 ug of Rat IgG2a K Isotype Control Purified (cat. 14-4321) (open histogram) or 0.25 ug of Anti-Mouse CD107b (LAMP-2) Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD107b (LAMP-2) Purified

REF Catalog Number: 14-1072

Clone: eBioABL-93 (ABL-93)


Concentration: 0.5 mg/mL


Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Contains sodium azide

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 thioglycolate-induced 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Betts MR, Koup RA. Detection of T-cell degranulation: CD107a and b. *Methods Cell Biol.* 2004;75:497-512.

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Cha Y, Holland SM, August JT. The cDNA sequence of mouse LAMP-2. Evidence for two classes of lysosomal membrane glycoproteins. *J Biol Chem.* 1990 Mar 25;265(9):5008-13. (ABL-93, affinity-chromatography, PubMed)

Chen JW, Chen GL, D'Souza MP, Murphy TL, August JT. Lysosomal membrane glycoproteins: properties of LAMP-1 and LAMP-2. *Biochem Soc Symp.* 1986;51:97-112.

Chen JW, Murphy TL, Willingham MC, Pastan I, August JT. Identification of two lysosomal membrane glycoproteins. *J Cell Biol.* 1985 Jul;101(1):85-95. (ABL-93, IP, IHC, PubMed)

Related Products

12-4317 Streptavidin PE
13-4813 Anti-Rat IgG Biotin (Polyclonal)
14-1071 Anti-Mouse CD107a (LAMP-1) Purified (eBio1D4B (1D4B))
14-1078 Anti-Human CD107b (LAMP-2) Purified (eBioH4B4 (H4B4))
14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)
88-8823 Fixation & Permeabilization Buffers

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