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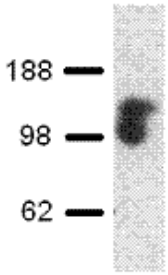
Anti-Human CD107a (LAMP-1) Purified

Catalog Number: 14-1079
Also Known As:LAMP1, lysosomal-associated membrane protein 1
RUO: For Research Use Only. Not for use in diagnostic procedures.



Normal human peripheral blood cells were lysed and 10 µg of total protein per lane was immunoblotted using 1 µg/ml of Anti-Human CD107a (LAMP-1) Purified and revealed with Anti-Mouse HRP.

Product Information

Contents: Anti-Human CD107a (LAMP-1) Purified
REF Catalog Number: 14-1079
Clone: eBioH4A3
Concentration: 0.5 mg/mL
Host/Isotype: Mouse IgG1, 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 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

Purified anti-human CD107a (LAMP-1) has been reported for use in flow cytometric analysis, immunohistochemistry, and immunoblotting. 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 eBioH4A3 antibody has been tested by intracellular staining and flow cytometric analysis or western blotting. For flow cytometry 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Betts MR, Koup RA. Detection of T-cell degranulation: CD107a and b. Methods Cell Biol. 2004;75:497-512.(H4A3, FC, degranulation assay, PubMed)

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Carlsson SR, Roth J, Piller F, Fukuda M. Isolation and characterization of human lysosomal membrane glycoproteins, h-lamp-1 and h-lamp-2. Major sialoglycoproteins carrying polylactosaminoglycan. J Biol Chem. 1988 Dec 15;263(35):18911-9.

Related Products
14-1071 Anti-Mouse CD107a (LAMP-1) Purified (eBio1D4B (1D4B))
14-1078 Anti-Human CD107b (LAMP-2) Purified (eBioH4B4 (H4B4))
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.1)

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