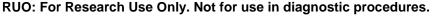
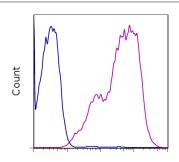


Anti-Mouse CD107a (LAMP-1) eFluor® 660 (Alexa® 647 Replacement)

Catalog Number: 50-1071 Also known as: Lysosome-associated membrane glycoprotein 1





CD107a eFluor 660

Product Information

Contents: Anti-Mouse CD107a (LAMP-1) eFluor® 660 (Alexa® 647 Replacement) REF Catalog Number: 50-1071

Clone: eBio1D4B (1D4B) Concentration: 0.2 mg/mL Host/Isotype: Rat IgG2a, kappa Intracellular staining of BALB/c thioglycolate-induced peritoneal exudate cells with 0.125 ug of Rat IgG2a K Isotype Control eFluor® 660 (cat. 50-4321) (blue histogram) or 0.125 ug of Anti-Mouse CD107a (LAMP-1) eFluor® 660 (purple histogram). Total viable cells were used for analysis.

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material. Batch Code: Refer to vial LOT Use By: Refer to vial Contains sodium azide

Description

The eBio1D4B monoclonal antibody reacts with mouse CD107a, also known as lysosomal-associated membrane protein-1 (LAMP-1). CD107a is a type I, lysosomal membrane protein that is extensively glycosylated. It is expressed constitutively in the late endosomes-lysosomes in all cells. CD107a is also transiently expressed on the cell surface of degranulating cytolytic T cells. Additionally, CD107a has been implicated in a variety of cellular functions including cancer metastasis and is also a marker for lysosomal storage disorders.

X

Applications Reported

This eBio1D4B (1D4B) antibody has been reported for use in intracellular staining and flow cytometric analysis. It has also been reported for use in surface staining in a flow cytometric based degranulation assay.

Applications Tested

This eBio1D4B (1D4B) antibody has been tested by intracellular staining and flow cytometric analysis of mouse thioglycolate-induced peritoneal exudate cells. This can be used at less than or equal to 0.25 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.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

References

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Gough NR, Zweifel ME, Martinez-Augustin O, Aguilar RC, Bonifacino JS, Fambrough DM. Utilization of the indirect



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lysosome targeting pathway by lysosome-associated membrane proteins (LAMPs) is influenced largely by the C-terminal residue of their GYXXphi targeting signals. J Cell Sci. 1999 Dec;112 (Pt 23):4257-69. (**1D4B**, IF, PubMed)

Rohrer J, Schweizer A, Russell D, Kornfeld S. The targeting of Lamp1 to lysosomes is dependent on the spacing of its cytoplasmic tail tyrosine sorting motif relative to the membrane. J Cell Biol. 1996 Feb;132(4):565-76. (1D4B, immunoelectron microscopy, PubMed)

Chen JW, Pan W, D'Souza MP, August JT. Lysosome-associated membrane proteins: characterization of LAMP-1 of macrophage P388 and mouse embryo 3T3 cultured cells. Arch Biochem Biophys. 1985 Jun;239(2):574-86. (**1D4B**, CD107a purification, PubMed)

Related Products

00-4222 Flow Cytometry Staining Buffer 00-8222 IC Fixation Buffer 00-8333 Permeabilization Buffer (10X) 50-4321 Rat IgG2a K Isotype Control eFluor® 660 (eBR2a) 53-1072 Anti-Mouse CD107b (LAMP-2) Alexa Fluor® 488 (eBioABL-93 (ABL-93))