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PE/Cyanine5 Anti-Mouse CD107a/LAMP-1 Antibody[1D4B]

Catalog No. E-AB-F1254G Reactivity Mouse

Storage Store at 2~8°C, Avoid freeze / thaw cycles Applications FCM/ICFCM

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Antigen Information

Alternate Names LAMP-1,Lysosome-associated membrane glycoprotein 1, lysosomal membrane glycoprotein 1,

CD107 antigen-like family member A, lysosome-associated membrane protein 1

Uniprot ID P11438 **Gene ID** 16783

Background The 1D4B antibody recognizes CD107a which is also known as, Lysosome-Associated Membrane

Protein 1 (LAMP-1). CD107a is one of the two major glycoproteins in lysosome membranes that provide useful markers to distinguish lysosomes from other organelles. CD107a may play a role in

the lysosomal degradation of certain molecules. Mouse CD107a is a type I transmembrane glycoprotein. It consists of a 40-kDa core protein which is heavily glycosylated to form

heterogeneous mature glycoprotein of 110-140 kDa. It is principally expressed in epithelial cells and macrophages in a variety of organs. Following activation, CD107a is relocated to the surface of some lymphocytes, macrophages, epithelial cells, endothelial cells, platelets, and tumor cells. Cell-surface CD107a may participate in intercellular adhesion and adhesion to the extracellular matrix. Cell surface CD107a expression can serve as a useful marker for cytotoxic NK and CD8+

T cells, as well as, some malignant tumor cells.

Product Details

Form Liquid

Size 50Tests/100Tests/100Tests×2

Clone No. 1D4B Host Rat

IsotypeRat IgG2a, κReactivityMouseApplicationFCM/ICFCM

Isotype Control PE/Cyanine5 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832G]

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

Shipping Biological ice pack at 4 °C **Stability & Storage** Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light.Do not freeze.

This product is guaranteed up to one year from purchase.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com Email: techsupport@elabscience.com

Elabscience Bionovation Inc.

Fax: 1-832-243-6017



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Fluorophore

Conjugation: PE/Cyanine5

PE/Cyanine5 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 670 nm (e.g., a 690/50 nm bandpass filter).

Recommended usage

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

Related Information

- 1. Sample Preparation for Flow Cytometry https://www.elabscience.com/List-detail-5594.html
- 2. Staining Cell Surface Targets for Flow Cytometry https://www.elabscience.com/List-detail-5568.html
- 3. Flow Cytometry Troubleshooting Tips https://www.elabscience.com/List-detail-5593.html
- 4. How to select the appropriate detection channel through the spectrogram? https://www.elabscience.com/Listdetail-459742.html

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