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PE/Cyanine7 Anti-Mouse CD107a/LAMP-1 Antibody[1D4B]

Catalog Number: E-AB-F1254H

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

Description

Reactivity Mouse Rat Host

Isotype Rat IgG2a, ĸ Clone No. 1D4B

PE/Cyanine7 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832H] **Isotype Control**

Conjugation

Conjugation Information PE/Cyanine7 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 775 nm

(e.g., a 780/60 nm bandpass filter).

Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. Storage Buffer

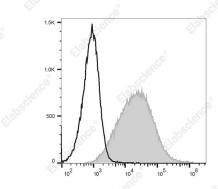
Applications Recommended usage

FCM 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.

Data



C57BL/6 murine abdominal macrophages elicited by starch broth are intracellularly stained with PE/Cyanine7 Anti-Mouse CD107a Antibody[1D4B] (filled gray histogram) or PE/Cyanine7 Rat IgG2a,κ Isotype Control (empty black histogram).

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names CD107 antigen-like family member Alysosomal membrane glycoprotein 1lysosome-

associated membrane protein 1;LAMP-1;Lysosome-associated membrane

glycoprotein 1;LAMP-1

For Research Use Only

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Uniprot ID Gene ID **Background** P11438 16783

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.

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