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PE/Cyanine 5.5 Anti-Mouse CD107a/LAMP-1 Antibody[1D4B]

Catalog Number: E-AB-F1254l

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

Description

Reactivity Mouse Host Rat

Isotype Rat IgG2a, κ **Clone No.** 1D4B

Isotype Control PE/Cyanine5.5 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832I]

Conjugation PE/Cyanine 5.5

Conjugation Information PE/Cyanine5.5 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 690 nm

(e.g., a 690/50 nm bandpass filter).

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

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 μ L of antibody per test (million cells in 100 μ L staining volume or per 100 μ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for

individual use.

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

 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.

Rev. V1.6

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