

FITC Anti-Mouse CD107a/LAMP-1 Antibody[1D4B]

Catalog No.	E-AB-F1254C	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
Isotype	Rat IgG2a, κ
Reactivity	Mouse
Application	FCM/ICFCM
Isotype Control	FITC Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832C]
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.

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Fluorophore

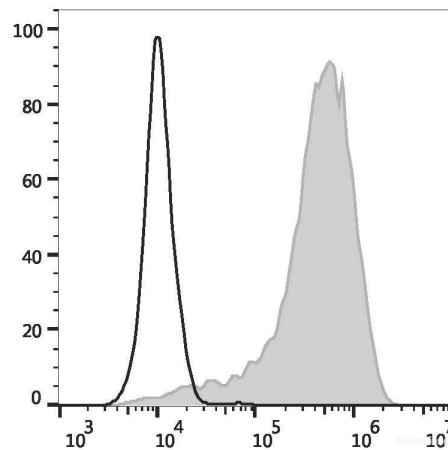
Conjugation: FITC

FITC is designed to be excited by the Blue laser (488 nm) and detected using an optical filter centered near 530 nm (e.g., a 525/40 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.

Product data



C57BL/6 murine abdominal macrophages elicited by starch broth are stained with FITC Anti-Mouse CD107a Antibody (Left). Macrophages are stained with FITC Rat IgG2a,κ Isotype Control (Right).

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/List-detail-459742.html>

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