

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

Catalog Number: E-AB-F1254D

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

### Description

<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2a, κ
<b>Clone No.</b>	1D4B
<b>Isotype Control</b>	PE Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832D]
<b>Conjugation</b>	PE
<b>Conjugation Information</b>	PE 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 575 nm (e.g., a 585/42 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

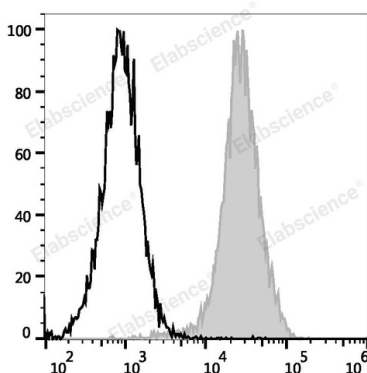
### Applications

FCM

### 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.

### Data



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

### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	CD107 antigen-like family member Alysosomal membrane glycoprotein 1;lysosome-associated membrane protein 1;LAMP-1;Lysosome-associated membrane glycoprotein 1;LAMP-1
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### For Research Use Only

**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.