

Datasheet for ABIN375425
anti-LAMP1 antibody (Biotin)[Go to Product page](#)

1 Image

1 Publication

Overview

Quantity:	100 tests
Target:	LAMP1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LAMP1 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC)

Product Details

Immunogen:	Human adherent peripheral blood cells
Clone:	H4A3
Isotype:	IgG1
Specificity:	Human/Rhesus/African Green Monkey/Pigtail Macaque/Sooty Mangabey CD107a, Mr 100-120 kDa
Characteristics:	Mouse Anti-Human CD107a-BIOT
Purification:	Purified

Target Details

Target:	LAMP1
Alternative Name:	CD107a (LAMP1 Products)

Target Details

Background: CD107a, also known as lysosomal-associated membrane protein 1 (LAMP-1), is a heavily glycosylated, type I transmembrane protein that constitutes the major sialoglycoproteins on lysosomal membranes. It is a ligand for galactin, an S-type lectin present in extracellular matrix, through its recognition of acetyllactosamine oligosaccharide chains, and is a ligand for E-selectin-mediated cell adhesion. CD107a is expressed by granulocytes, T cells, macrophages, dendritic cells, activated platelets, tonsillar epithelium and some tumor cell lines, including U937 and KG1a. It is also a widely expressed intracellular antigen. LAMP-1 may function in protecting the inner surface of the lysosomal membrane by forming a barrier to lysosomal hydrolases. The upregulation of both CD107a and CD107b on the surface of tumor cell lines has been associated with their enhanced metastatic potential, where they may increase adhesion to extracellular matrix and endothelium.

Pathways: [Autophagy](#)

Application Details

Application Notes: Working Dilution:
10 μ L/ 10^6 cells
Representative data are included in this product insert.

Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Restrictions: For Research Use only

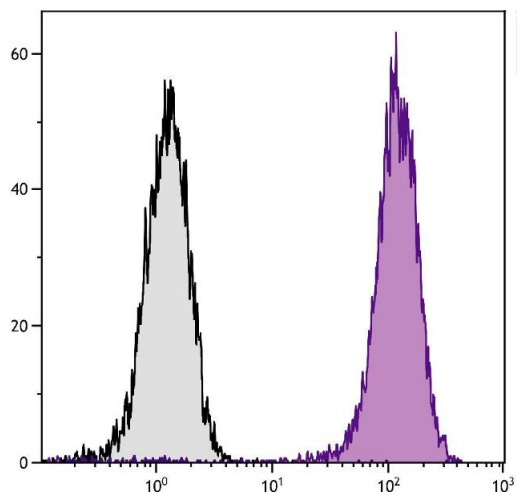
Handling

Handling Advice: **Protect conjugated products from light.**
Each reagent is stable for the period shown on the bottle label if stored as directed.

Storage: 4 °C

Publications

Product cited in: Biskup, Moore, Rea, Lorenz-Deperieux, Coombes, Dawson, Dawson, West: "Dynamic and redundant regulation of LRRK2 and LRRK1 expression." in: **BMC neuroscience**, Vol. 8, pp. 102, (2008) ([PubMed](#)).



Flow Cytometry

Image 1. Human T cell leukemia cell line Jurkat was intracellularly stained with Mouse Anti-Human CD107a-PE.