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# Datasheet for ABIN135442 anti-LAMP1 antibody

1 Image

1 Publication



#### Overview

Quantity:	0.5 mg
Target:	LAMP1
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This LAMP1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunoprecipitation (IP)

### Product Details

Immunogen:	Plasma membrane fraction of mouse embryo NIH/3T3 cell line
Clone:	1D4B
lsotype:	lgG2a
Specificity:	Mouse CD107a, Mr 110-140 kDa
Characteristics:	Rat Anti-Mouse CD107a-UNLB
Purification:	Purified
Target Details	
Target:	LAMP1

Alternative Name:	CD107a (LAMP1 Products)

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## Target Details

Background:	CD107a, also known as lysosomal-associated membrane protein 1 (LAMP-1), is a heavily
	glycosylated, type I transmembrane protein that constitutes one of the two major
	sialoglycoproteins on lysosomal membranes that can be used to distinguish lysosomes from
	other organelles. It is a ligand for galaptin, 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 principally expressed in epithelial cells and
	macrophages in a variety of organs in normal and Beige mutant mice. LAMP-1 may function in
	protecting the inner surface of the lysosomal membrane by forming a barrier to lysosomal
	hydrolases.

Pathways:

Autophagy

## Application Details

Application Notes:	Working Dilution:
	FACS: 1 µg/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.
Comment:	Immunoelectron microscopy, Immunoaffinity chromatography
Sample Volume:	1 mL
Restrictions:	For Research Use only
Handling	
Buffer:	Product is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered
	saline, pH 8.0.
Handling Advice:	Each reagent is stable for the period shown on the bottle label if stored as directed.
Storage:	4 °C
Publications	
Product cited in:	Roman, Qiu, Dornadula, Hamuro, Bakhtiar, Verch: "Application of miniaturized immunoassays to
	discovery pharmacokinetic biognalysis " in: <b>Journal of pharmacological and toxicological</b>

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### Images



CD107a Ubiquitin M. tuberculosis

#### Immunofluorescence

**Image 1.** DC2.4 cells were infected with AF405 labeled M. tuberculosis and stained with Rat Anti-Mouse CD107a-UNLB

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