

Datasheet for ABIN1027702  
**anti-LAMP2 antibody (APC)**



[Go to Product page](#)

1 Image

5 Publications

## Overview

Quantity:	100 tests
Target:	LAMP2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LAMP2 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

## Product Details

Immunogen:	Human PBMC
Clone:	H4B4
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody H4B4 recognizes an extracellular/luminal epitope of CD107b / LAMP-2, an extensively glycosylated 100-120 kDa widely expressed lysosome-associated protein.
No Cross-Reactivity:	Mouse, Rat
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

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Target:	LAMP2
Alternative Name:	CD107b ( <a href="#">LAMP2 Products</a> )
Background:	Lysosomal associated membrane protein 2,CD107b (lysosome-associated membrane protein-2, LAMP-2), together with CD107a / LAMP-1, is a major constituent of lysosomal membrane. The LAMP proteins are involved in lysosome biogenesis and are required for fusion of lysosomes with phagosomes, especially CD107b is important regulator in successful phagosomal maturation. CD107b deficiency causes an accumulation of autophagosomes in many tissues leading to cardiomyopathy and myopathy (Danons disease). Immature CD107b is an approximately 45 kDa protein, but after extensive glycosylation the mature glycoprotein has about 100-120 kDa.,LAMP-2, LAMPB
Gene ID:	3920
UniProt:	<a href="#">P13473</a>
Pathways:	<a href="#">Autophagy</a>

## Application Details

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Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Intracellular and extracellular staining.
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

## Handling

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Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b> Avoid prolonged exposure to light.

## Handling

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Storage: 4 °C

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Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## Publications

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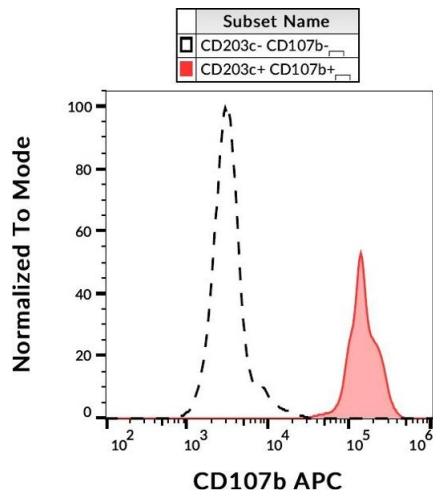
Product cited in: Meade, Wilson, Holmes, de Wynter, Brett, Straszynski, Ballard, Trapani, McDermott, Cook: "Proteolytic activation of the cytotoxic phenotype during human NK cell development." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 183, Issue 2, pp. 803-13, (2009) ([PubMed](#)).

Guia, Cognet, de Beaucoudrey, Tessmer, Jouanguy, Berger, Filipe-Santos, Feinberg, Camcioglu, Levy, Al Jumaah, Al-Hajjar, Stephan, Fieschi, Abel, Brossay, Casanova, Vivier: "A role for interleukin-12/23 in the maturation of human natural killer and CD56+ T cells in vivo." in: **Blood**, Vol. 111, Issue 10, pp. 5008-16, (2008) ([PubMed](#)).

Apte, Baz, Groves, Kelso, Kienzle: "Interferon-gamma and interleukin-4 reciprocally regulate CD8 expression in CD8+ T cells." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 105, Issue 45, pp. 17475-80, (2008) ([PubMed](#)).

Kannanganat, Ibegbu, Chennareddi, Robinson, Amara: "Multiple-cytokine-producing antiviral CD4 T cells are functionally superior to single-cytokine-producing cells." in: **Journal of virology**, Vol. 81, Issue 16, pp. 8468-76, (2007) ([PubMed](#)).

Denzer, van Eijk, Kleijmeer, Jakobson, de Groot, Geuze: "Follicular dendritic cells carry MHC class II-expressing microvesicles at their surface." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 165, Issue 3, pp. 1259-65, (2000) ([PubMed](#)).



## Flow Cytometry

**Image 1.** Flow cytometry analysis (surface staining) of IgE-stimulated human peripheral blood with anti-CD107b (H4B4) APC.