

Datasheet for ABIN1027703  
**anti-LAMP1 antibody (APC)**[Go to Product page](#)

2 Images

8 Publications

## Overview

Quantity:	100 tests
Target:	LAMP1
Reactivity:	Human, Mouse, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LAMP1 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

## Product Details

Immunogen:	Human PBMC
Clone:	H4A3
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody H4A3 recognizes an extracellular/luminal epitope of CD107a, an approximately 100-120 kDa glycoprotein expressed mainly on lysosomal, but also on the plasma membrane.
Cross-Reactivity (Details):	Human, Non-Human Primates, Mouse
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

Target:	LAMP1
Alternative Name:	CD107a ( <a href="#">LAMP1 Products</a> )
Background:	Lysosomal associated membrane protein 1,CD107a (lysosome-associated membrane protein-1, LAMP-1), together with LAMP-2, is a major constituent of lysosomal membrane, 1-2 % of total CD107a is found also on the plasma membrane. The LAMP proteins are involved in lysosome biogenesis and are required for fusion of lysosomes with phagosomes. Increased CD107a immunoreactivity is observed in neurones, and in glial cells surrounding senile plaques in Alzheimers disease cases and is localized mainly in medullary epithelial cells, single macrophages and lymphocytes in acute thymic involution. CD107a is a good marker of mast cell activation.,LAMP-1, LAMPA
Gene ID:	3916
UniProt:	<a href="#">P11279</a>
Pathways:	<a href="#">Autophagy</a>

## Application Details

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

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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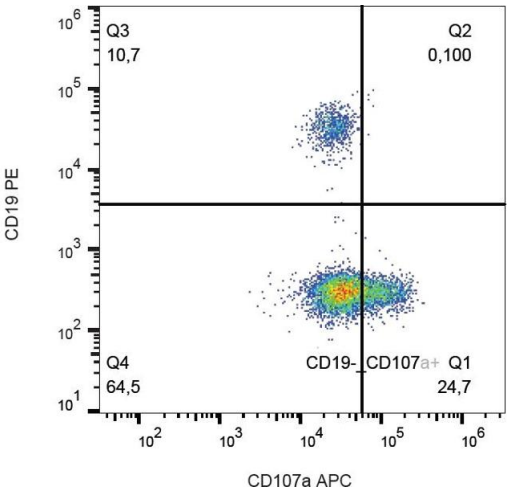
Storage: 4 °C

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

## Publications

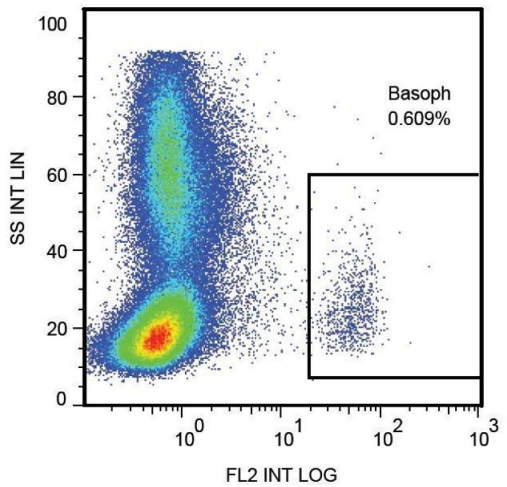
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- Product cited in:
- Majer, Vlaskova, Krol, Kalina, Kubanek, Stolnaya, Dvorakova, Elleder, Sikora: "Danon disease: a focus on processing of the novel LAMP2 mutation and comments on the beneficial use of peripheral white blood cells in the diagnosis of LAMP2 deficiency." in: **Gene**, Vol. 498, Issue 2, pp. 183-95, (2012) ([PubMed](#)).
- Mao, Tu, Liu, Qin, Zheng, Chan, Lam, Peiris, Lau: "Inhibition of human natural killer cell activity by influenza virions and hemagglutinin." in: **Journal of virology**, Vol. 84, Issue 9, pp. 4148-57, (2010) ([PubMed](#)).
- Yu, Gallegos, Marches, Zurawski, Ramilo, García-Sastre, Banchereau, Palucka: "Broad influenza-specific CD8+ T-cell responses in humanized mice vaccinated with influenza virus vaccines." in: **Blood**, Vol. 112, Issue 9, pp. 3671-8, (2008) ([PubMed](#)).
- Tomescu, Chehimi, Maino, Montaner: "NK cell lysis of HIV-1-infected autologous CD4 primary T cells: requirement for IFN-mediated NK activation by plasmacytoid dendritic cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 179, Issue 4, pp. 2097-104, (2007) ([PubMed](#)).
- Carlsten, Björkström, Norell, Bryceson, van Hall, Baumann, Hanson, Schedvins, Kiessling, Ljunggren, Malmberg: "DNAX accessory molecule-1 mediated recognition of freshly isolated ovarian carcinoma by resting natural killer cells." in: **Cancer research**, Vol. 67, Issue 3, pp. 1317-25, (2007) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)



### Flow Cytometry

**Image 1.** Flow cytometry analysis (intracellular staining) of human peripheral blood cells with anti-CD107a (H4A3) APC.



### Flow Cytometry

**Image 2.** Surface staining of human peripheral blood cells with anti-CD107a (H4A3) PE.