



[Go to Product page](#)

Datasheet for ABIN1303154  
**anti-CD84 antibody (PE)**

1 Image

4 Publications

### Overview

Quantity:	100 tests
Target:	CD84
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD84 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

### Product Details

Immunogen:	CD84-transfected 300.19 cell line
Clone:	CD84-1-21
Isotype:	IgG2a kappa
Specificity:	The mouse monoclonal antibody CD84.1.21 recognizes an extracellular epitope of CD84, a single chain cell surface glycoprotein of 64-82 kDa, predominantly expressed B cells, monocytes, platelets and some T cells.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

### Target Details

Target:	CD84
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## Target Details

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Alternative Name:	CD84 ( <a href="#">CD84 Products</a> )
Background:	<p>CD84 Molecule, CD84 is a highly glycosylated homophilic receptor of SLAM family. It is expressed on platelets and various types of leukocytes, especially following their activation. Ligation of CD84 leads to its phosphorylation on tyrosine residues within the cytoplasmic tail. These docking sites are recognized by downstream signaling molecules, such as phosphatase SHP-2 and adaptor protein SAP/SH2D1A. The function of CD84 has not been fully elucidated yet. Although predominantly activating receptor, its modulating activity was also demonstrated., LY9B, SLAMF5</p>
Gene ID:	8832
UniProt:	<a href="#">Q9UIB8</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.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) 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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## Publications

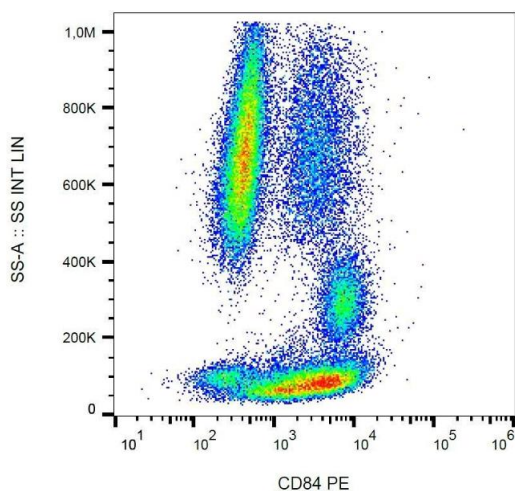
Product cited in: Romero, Zapater, Calvo, Kalko, de la Fuente, Tovar, Ockeloen, Pizcueta, Engel: "CD229 (Ly9) lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocalizes to the immunological synapse." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 174, Issue 11, pp. 7033-42, (2005) ([PubMed](#)).

Morra, Lu, Poy, Martin, Sayos, Calpe, Gullo, Howie, Rietdijk, Thompson, Coyle, Denny, Yaffe, Engel, Eck, Terhorst: "Structural basis for the interaction of the free SH2 domain EAT-2 with SLAM receptors in hematopoietic cells." in: **The EMBO journal**, Vol. 20, Issue 21, pp. 5840-52, (2001) ([PubMed](#)).

Martin, Romero, de la Fuente, Tovar, Zapater, Esplugues, Pizcueta, Bosch, Engel: "CD84 functions as a homophilic adhesion molecule and enhances IFN-gamma secretion: adhesion is mediated by Ig-like domain 1." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 167, Issue 7, pp. 3668-76, (2001) ([PubMed](#)).

Sayós, Martín, Chen, Simarro, Howie, Morra, Engel, Terhorst: "Cell surface receptors Ly-9 and CD84 recruit the X-linked lymphoproliferative disease gene product SAP." in: **Blood**, Vol. 97, Issue 12, pp. 3867-74, (2001) ([PubMed](#)).

## Images



### Flow Cytometry

**Image 1.** Surface staining of CD84 in human peripheral blood with anti-CD84 (CD84.1.21) PE.