

Datasheet for ABIN1981886
anti-CD1b antibody (FITC)[Go to Product page](#)**1** Image**3** Publications

Overview

Quantity:	100 tests
Target:	CD1b (CD1B)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD1b antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	A cell membrane antigen preparation that was isolated from normal human thymocytes
Clone:	SN13
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody SN13 (also known as K5-1B8) recognizes an extracellular epitope of CD1b, a 44 kDa type I glycoprotein associated with beta2-microglobulin. It is expressed on dendritic cells, Langerhans cells, thymocytes, and T acute lymphoblastic leukemia cells.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD1b (CD1B)
Alternative Name:	CD1b (CD1B Products)
Background:	CD1b molecule,CD1b (also known as R1) together with CD1a and c, belongs to group 1 of CD1 antigens. These non-classical MHC-like glycoproteins serve as antigen-presenting molecules for a subset of T cells that responds to specific lipids and glycolipids found in the cell walls of bacterial pathogens or self-glycolipid antigens such as gangliosides, and they have also roles in antiviral immunity. The trafficking routes of the particular CD1 types differ and correspond to their ability to bind and present different groups of antigens. Besides non-peptide glycolipid antigen presentation to CD1-restricted T cells, CD1b has been implicated in thymocyte development.,R1
Gene ID:	910
UniProt:	P29016

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

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:	<p>Do not freeze. Avoid prolonged exposure to light.</p> <p>Do not use after expiration date stamped on vial label.</p> <p>Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.</p>

Handling

Storage: 4 °C

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

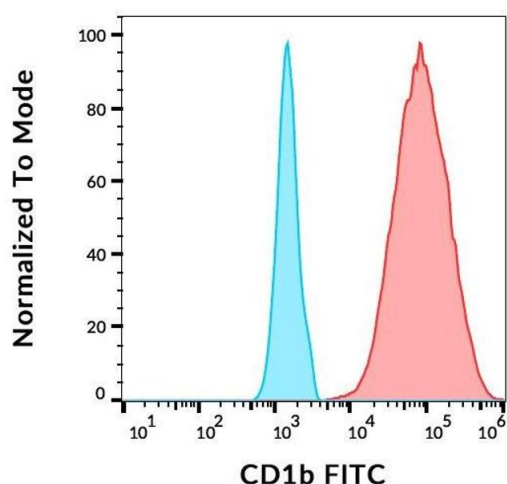
Publications

Product cited in: Hayes, Knight: "Group 1 CD1 genes in rabbit." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 166, Issue 1, pp. 403-10, (2001) ([PubMed](#)).

Giuliani, Prete, Graziani, Aquino, Balduzzi, Sugita, Brenner, Iona, Fattorini, Orefici, Porcelli, Bonmassar: "Influence of Mycobacterium bovis bacillus Calmette Guérin on in vitro induction of CD1 molecules in human adherent mononuclear cells." in: **Infection and immunity**, Vol. 69, Issue 12, pp. 7461-70, (2001) ([PubMed](#)).

Tentori, Graziani, Porcelli, Sugita, Brenner, Madaio, Bonmassar, Giuliani, Aquino: "Rifampin increases cytokine-induced expression of the CD1b molecule in human peripheral blood monocytes." in: **Antimicrobial agents and chemotherapy**, Vol. 42, Issue 3, pp. 550-4, (1998) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Surface staining of 5 days differentiated monocytes with anti-human CD1b (SN13) FITC.