Datasheet for ABIN1981866

anti-CD1b antibody

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Overview

Quantity:	0.1 mg
Target:	CD1b (CD1B)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD1b antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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:	Do not freeze. Do not use after expiration date stamped on vial label.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

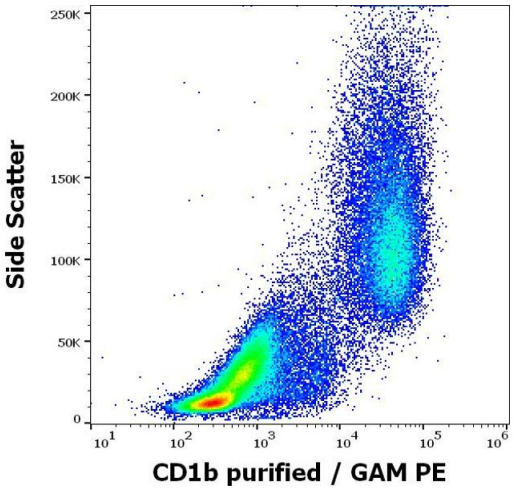
Product cited in:	Giuliani, Prete, Graziani, Aquino, Balduzzi, Sugita, Brenner, Iona, Fattorini, Orefici, Porcelli, Bonmassar: "Influence of Mycobacterium bovis bacillus Calmette Guérin on in vitro induction of CD1 molecules in human adherent mononuclear cells." in: **Infection and immunity**, Vol. 69,

Issue 12, pp. 7461-70, (2001) (PubMed).

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

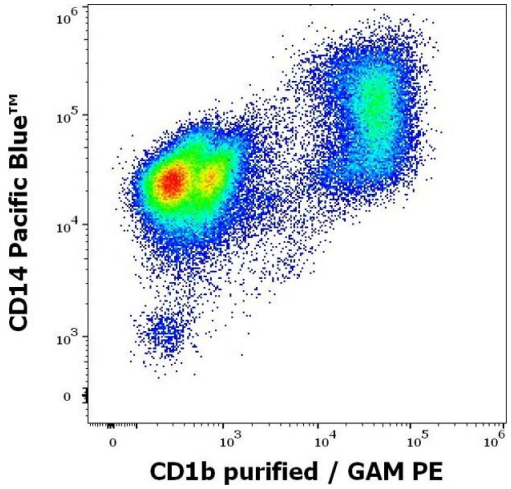
Tentori, Graziani, Porcelli, Sugita, Brenner, Madaio, Bonmassar, Giuliani, Aquino: "Rifampin increases cytokine-induced expression of the CD1b molecule in human peripheral blood monocytes." in: **Antimicrobial agents and chemotherapy**, Vol. 42, Issue 3, pp. 550-4, (1998) (PubMed).

Images



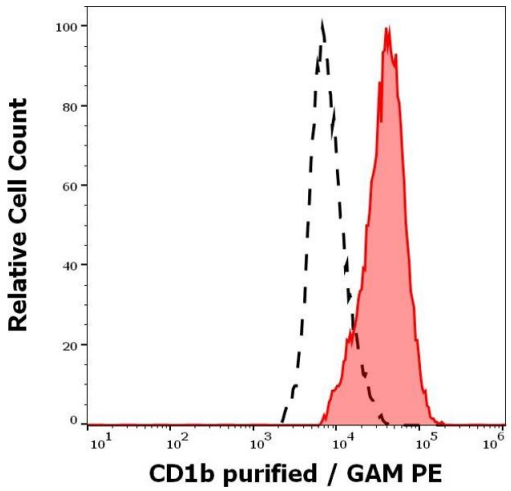
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD1b (SN13) purified antibody (concentration in sample 9 µg/mL, GAM PE).



Flow Cytometry

Image 2. Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells using anti-human CD1b (SN13) purified antibody (concentration in sample 9 µg/mL, GAM PE) and anti-human CD14 (MEM-15) Pacific Blue antibody (4 µL reagent per milion cells in 100 µL of cell suspension).



Flow Cytometry

Image 3. Separation of cells stained using anti-human CD1b (SN13) purified antibody (concentration in sample 9 µg/mL, GAM PE, red-filled) from cells unstained by primary antibody (GAM PE, black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells.

Please check the product details page for more images. Overall 4 images are available for ABIN1981866.