Datasheet for ABIN1981893
anti-CD1c antibody (PE)

1	Image		**4**	Publications

Overview

Quantity:	100 tests
Target:	CD1c (CD1C)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD1c antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	human thymocytes
Clone:	L161
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody L161 recognizes an extracellular epitope of CD1c, (R7), a 43 kDa type I glycoprotein associated with beta2-microglobulin. It is expressed on cortical thymocytes (strongly), Langerhans cells, dendritic cells, B 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:	CD1c (CD1C)

Target Details

Alternative Name:	CD1c (CD1C Products)
Background:	CD1c molecule,CD1c (also known as R7 or BDCA1) together with CD1a and b, 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. CD1c is unique in its ability to present e.g. mycobacterial phosphoketides and polyisoprenoids. CD1c is the only CD1 isoform that has been shown to interact both with alpha/beta and gamma/delta T cells.,R7, BDCA1
Gene ID:	911
UniProt:	P29017

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 10^6 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

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:	Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. 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.

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

Product cited in:

Scharf, Li, Hawk, Garzón, Zhang, Fox, Kazen, Shah, Haddadian, Gumperz, Saghatelian, Faraldo-Gómez, Meredith, Piccirilli, Adams: "The 2.5 Å structure of CD1c in complex with a mycobacterial lipid reveals an open groove ideally suited for diverse antigen presentation." in: **Immunity**, Vol. 33, Issue 6, pp. 853-62, (2010) (PubMed).

del C Salamone, Mendiguren, Salamone, Fainboim: "Membrane trafficking of CD1c on activated T cells." in: **Journal of leukocyte biology**, Vol. 70, Issue 4, pp. 567-77, (2001) (PubMed).

Briken, Jackman, Watts, Rogers, Porcelli: "Human CD1b and CD1c isoforms survey different intracellular compartments for the presentation of microbial lipid antigens." in: **The Journal of experimental medicine**, Vol. 192, Issue 2, pp. 281-8, (2000) (PubMed).

Todate, Chida, Suda, Imokawa, Sato, Ide, Tsuchiya, Inui, Nakamura, Asada, Hayakawa, Nakamura: "Increased numbers of dendritic cells in the bronchiolar tissues of diffuse panbronchiolitis." in: **American journal of respiratory and critical care medicine**, Vol. 162, Issue 1, pp. 148-53, (2000) (PubMed).

Images
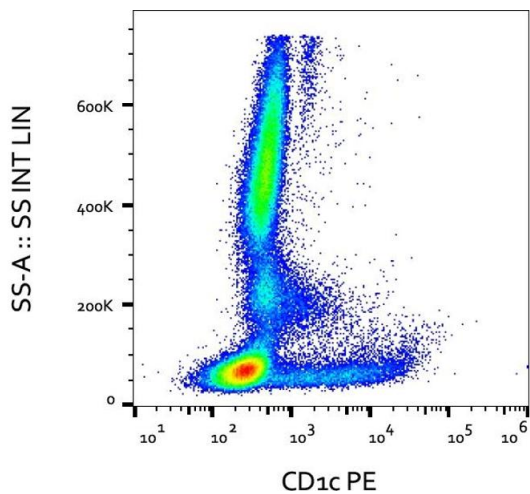
Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-human CD1c (clone L161) PE.