

Datasheet for ABIN1981870

anti-CD1c antibody**3** Images**4** Publications[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	CD1c (CD1C)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD1c antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunoprecipitation (IP)

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

Target Details

Target:	CD1c (CD1C)
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: 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:	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
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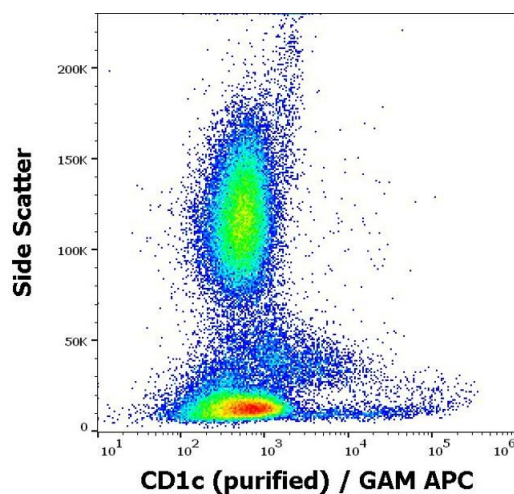
mycobacterial lipid reveals an open groove ideally suited for diverse antigen presentation." in: **Immunity**, Vol. 33, Issue 6, pp. 853-62, (2010) ([PubMed](#)).

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](#)).

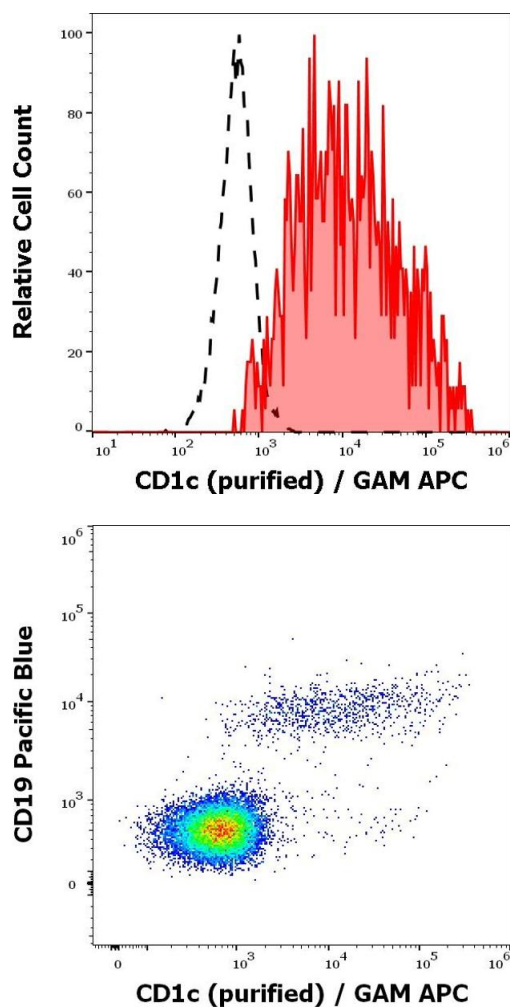
Todate, Chida, Suda, Imokawa, Sato, Ide, Tsuchiya, Inui, Nakamura, Asada, Hayakawa, Nakamura: "Increased numbers of dendritic cells in the bronchiolar tissues of diffuse panbronchiolitis." in: **American journal of respiratory and critical care medicine**, Vol. 162, Issue 1, pp. 148-53, (2000) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD1c (L161) purified antibody (concentration in sample 0,33 μ g/mL, GAM APC).



Flow Cytometry

Image 2. Separation of human CD1c positive CD19 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood using anti-human CD1c (L161) purified antibody (concentration in sample 0,33 μ g/mL, GAM APC).

Flow Cytometry

Image 3. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD1c (L161) purified antibody (concentration in sample 0,33 μ g/mL, GAM APC) and anti-human CD19 (LT19) APC antibody (20 μ L reagent / 100 μ L of peripheral whole blood).