Human CD1c/BDCA-1 APC-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: FAB5910A
100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD1c in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CD1a, rhCD1b, rhCD1d, and rhCD1e is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD1c/BDCA-1 Ala19-Met302 (Phe300Ser) Accession # P29017
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

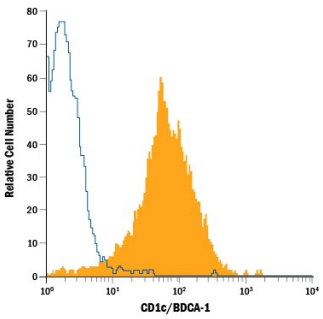
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of CD1c/BDCA-1 in MOLT-4 Human Cell Line by Flow Cytometry. MOLT-4 human acute lymphoblastic leukemia cell line was stained with Goat Anti-Human CD1c/BDCA-1 APC-conjugated Antigen Affinity-purified Polyclonal Antibody (Catalog # FAB5910A, filled histogram) or isotype control antibody (Catalog # IC108A, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD1c (Cluster of Differentiation antigen 1c) is a 43 kDa member of the CD1 family of molecules. It is expressed by thymocytes, dendritic cells and B cells, and exists as part of a noncovalent complex with 12 kDa β_2-microglobulin. It is found in the plasma membrane and early endosomes (but not lysosomes), and is presumed to present glycolipids and acylated peptides to T cells. Mature human CD1c is a 316 amino acid (aa) type I transmembrane glycoprotein. It contains a 285 aa extracellular domain (ECD) (aa 18-302) plus a 10 aa cytoplasmic tail. The ECD shows one Ig-like domain (aa 203-296) that associates with β_2-microglobulin, and a TyrGlnAspIle internalization motif in the cytoplasmic tail. There are three potential splice variants. One shows a Trp substitution for aa 327-333, a second shows an eight aa substitution for aa 298-333, and a third shows a 50 aa substitution for aa 297-333. There appears to be no direct mouse counterpart to human CD1c.