

DESCRIPTION

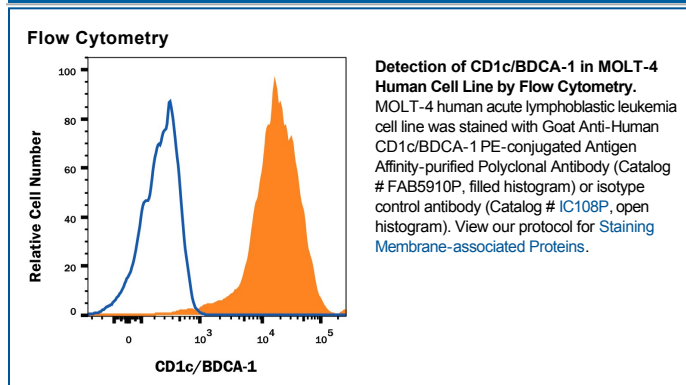
Species Reactivity	Human
Specificity	Detects human CD1c in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CD1a, rhCD1b, rhCD1d, and rhCD1e is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD1c/BDCA-1 aa 19-302 Accession # P29017
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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 μ L/10 ⁶ cells	See Below

DATA



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.