

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	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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 316 amino acid glycoprotein with a predicted molecular weight of 43 kDa. CD1c is a 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.

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