

## DESCRIPTION

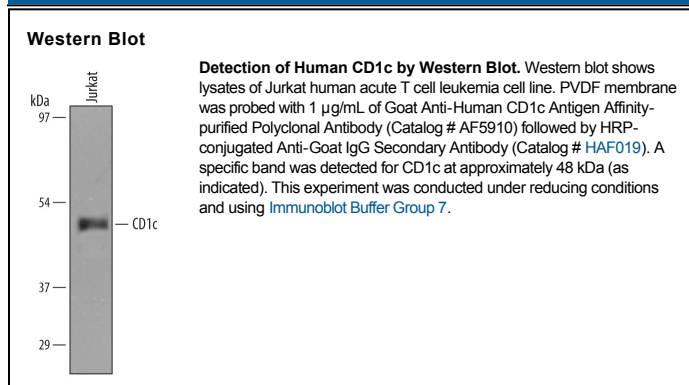
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD1c in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CD1a, rhCD1b, rhCD1d, and rhCD1e is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human CD1c/BDCA-1 Ala19-Met302 (Phe300Ser) Accession # P29017
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## 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
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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  $\beta_2$ -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  $\beta_2$ -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.