

Recombinant Human CD1B Protein, His-tagged

Cat. No. CD1B-151H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD1b molecule(CD1B)(NM_001764), with a His tag, was expressed in human cells.
Species	Human
Source	Human Cells
Description	This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to late endosomes and lysosomes via a tyrosine-based motif in the cytoplasmic tail, and requires vesicular acidification to bind lipid antigens.
Form	Purified protein formulated in a sterile solution of TBS buffer, pH7.235, without any preservatives.
Molecular Mass	35.1 kDa
Endotoxin	Endotoxin level is < 0.1 ng/g of protein (<1EU /g)
Purity	>90% by SDS-PAGE gel and Coomassie Blue staining

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Applications

Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

GENE INFORMATION

Gene Name [CD1B CD1b molecule \[Homo sapiens \]](#)

Official Symbol [CD1B](#)

Synonyms

CD1B; CD1b molecule; CD1, CD1b antigen , CD1B antigen, b polypeptide; T-cell surface glycoprotein CD1b; CD1B antigen, b polypeptide; cortical thymocyte antigen CD1B; differentiation antigen CD1-alpha-3; R1; CD1; CD1A; MGC125990; MGC125991;

Gene ID [910](#)

mRNA Refseq [NM_001764](#)

Protein Refseq [NP_001755](#)

MIM [188360](#)

UniProt ID [P29016](#)

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