

Recombinant Human CD1B

Cat. No. CD1B-27106TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human CD1b (amino acids 19-110) with N terminal proprietary tag, 35.75kDa.
Species	Human
Source	Wheat Germ
ProteinLength	92 amino acids
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.
Molecular Weight	35.750kDa inclusive of tags
Tissue specificity	Expressed on cortical thymocytes, on certain T-cell leukemias, and in various other tissues.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	EHAFAQGPTSFHVIQTSSFTNSTWAQTQGSGWLDDLQIHGWDSDSGTAIFLKPWSK GNFSDKEVAELEEIFRVYIFGFAREVQDFAGDFQMKY
Sequence Similarities	Contains 1 Ig-like (immunoglobulin-like) domain.

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;
Gene ID	910
mRNA Refseq	NM_001764
Protein Refseq	NP_001755
MIM	188360
Uniprot ID	P29016

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Chromosome Location	1q22-q23
Pathway	Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	protein binding;

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