Recombinant Human CD1D

Cat. No. CD1D-27107TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CD1d with N terminal proprietary tag; predicted MW 62.59 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	335 amino acids
Description	This gene encodes a divergent 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.
Molecular Weight	62.590kDa 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:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MGCLLFLLLWALLQAWGSAEVPQRLFPLRCLQISSFANSS WTRTDGLAWLGELQT HSWSNDSDTVRSLKPWSQGTFSDQQ WETLQHIFRVYRSSFTRDVKEFAKMLRLSY PLELQVSAGC EVHPGNASNNFFHVAFQGKDILSFQGTSWEPTQEAPLWVN LAIQV LNQDKWTRETVQWLLNGTCPQFVSGLLESGKSELK KQVKPKAWLSRGPSPGPGR LLLVCHVSGFYPKPVWVKWMR GEQEQQGTQPGDILPNADETWYLRATLDVVAGE AAGLSCR VKHSSLEGQDIVLYWGGSYTSMGLIALAVLACLLFLLIVG FTSRFKRQTS YQGVL
Sequence Similarities	Contains 1 Ig-like (immunoglobulin-like) domain.

GENE INFORMATION

Gene Name	CD1D CD1d molecule [Homo sapiens]
Official Symbol	CD1D
Synonyms	CD1D; CD1d molecule; CD1d antigen , CD1D antigen, d polypeptide; antigen-presenting glycoprotein CD1d;
Gene ID	912
mRNA Refseq	NM_001766

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Protein Refseq	NP_001757
MIM	188410
Uniprot ID	P15813
Chromosome Location	1q22-q23
Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	beta-2-microglobulin binding; exogenous lipid antigen binding; histone binding; receptor activity;

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