

Recombinant Human CD1B Protein, C-His-tagged

Cat. No. CD1B-164H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD1B Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	The CD1 multigene family encodes five forms of the CD1 T cell surface glycoprotein in human, designated CD1A, 1B, 1C, 1D and 1E. CD1, a type 1 membrane protein, has structural similarity to the MHC class I antigen and has been shown to present lipid antigens for recognition by T lymphocytes. CD1 antigens are associated with β-2-Microglobulin and expressed on cortical thymocytes, Langerhans cells, a B cell subset and some dendritic cells. Specifically, CD1A is a marker for Langerhans cell histiocytosis (LCH) and is found on interdigitating cells. Adaptor-protein complexes and CD1-associated chaperones control CD1 trafficking, and the development and activation of CD1-restricted T cells. Constitutive endocytosis of CD1B molecules and the differential sorting of MHC class II from lysosomes separate peptide- and lipid antigen-presenting molecules during dendritic cell maturation. CD1B is also expressed in interdigitating cells. The human CD1 genes are all closely linked in a cluster mapping at chromosome 1q 23.1.
Molecular Mass	~32 kDa
AA Sequence	SEHAFQGPTSFHVIQTSSFTNSTWAQTQGSGWLDDLQIHGWSDSGTAIFLKPSWK GNFSDKEVAELEEIFRVYIFGFAREVQDFAGDFQMKYPFEIQGIAGCELHSGGAIVSF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LRGALGGDLFLSVKNASCVPSPPEGGSRAQKFCALIIQYQGIMETVRILLYETCPRYLL
GVLNAGKADLQRQVKPEAWLSSGSPSPGPGRLQLVCHVSGFYKPKPVWVMWMRGE
QEQQGTQLGDILPNANWTWYLRATLDVADGEAAGLSCRVKHSSLEGQDIILYWRNP
TSIGS

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

CD1B CD1b molecule [Homo sapiens (human)]

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

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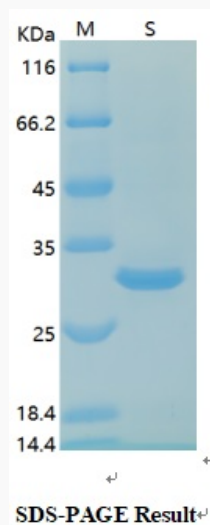
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_001755

MIM 188360

UniProt ID P29016

SDS-PAGE



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