

# Recombinant Human CD1B Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CD1B-1211H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | CD1B MS Standard C13 and N15-labeled recombinant protein (NP_001755) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 36.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MLLLPFQLLAVLFPGGNSEHAFQGPTSFHVIQTSSFTNSTWAQTQGGSWLDDLQIH<br>GWDSDSGTAIFLKPWSKGNFSDKEVAELEEIFRVYIFGFAREVQDFAGDFQMKYPF<br>EIQGIAGCELHSGGAIVSFLRGALGGDLFLSVKNASCVPSPGEGSRAQKFCALIIQYQ<br>GIMETVRILLYETCPRYLLGVNLNAGKADLQRQVKPEAWLSSGPSPGPGRLQLVCHV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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SGFYKPKVWVMWMRGEQEQGTQLGDILPNANWTWYLRATLDVADGEAAGLSCR  
VKHSSLEGQDIILYWRNPTSIGSIVLAIIVPSLLLLLCLALWYMRRRSYQNIPTTRTRPLE  
QKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## 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

**Protein Refseq** NP\_001755

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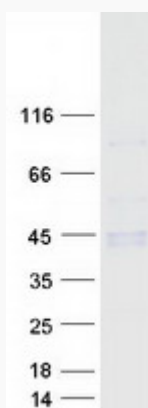
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MIM 188360

UniProt ID P29016

SDS-PAGE



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