

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

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

SPECIFICATION

Product Overview	CD1B MS Standard C13 and N15-labeled recombinant protein (NP_001755) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	36.9 kDa
AA Sequence	MLLLPFQLLAVLFPGGNSEHAFQGPTSFHVIQTSSFTNSTWAQTQGSGWLDDLQIH GWDSDSGTAIFLKPWSKGNFSDKEVAELEEIFRVYIFGFAREVQDFAGDFQMKYPF EIQGIAGCELHSGGAIVSFLRGALGGLDFLSVKNASCVPSPGEGSRAQKFCALIIQYQ 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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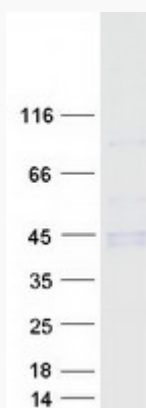
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MIM 188360

UniProt ID P29016

SDS-PAGE



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