

## Product datasheet for PH319131

### CD1B (NM\_001764) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CD1B MS Standard C13 and N15-labeled recombinant protein (NP_001755)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219131
Predicted MW:	36.9 kDa
Protein Sequence:	>RC219131 protein sequence Red=Cloning site Green=Tags(s)

MLLLPFQLLAVLFPGGNSEHAFQGPTSFHVIQTSSFTNSTWAQTQSGWLDLQIHGWSDSGTAIFLKP  
WSKGNFSDKEVAELIEIFRVYIFGFAREVQDFAGDFQMKYPFEIQGIAGCELHSGGAIVSFLRGALGGLD  
FLSVKNASCVPSPPEGGSRAQKFCALIIQYQGIMETVRILLYETCPRYLLGVLNAGKADLQRQVKPEAWLS  
SGPSPGPGRLQLVCHVSGFYKPVWMMWRGEQEQGTQLGDILPNANWTWYLRATLDVADGEAAGLSR  
VKHSSLEGQDIILYWRNPTSIGSIVLAIIVPSLLLLLCLALWYMRRRSYQNIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_001755</a></u>
RefSeq Size:	1396
RefSeq ORF:	999
Synonyms:	CD1; CD1A; R1
Locus ID:	910



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UniProt ID: [P29016](#)

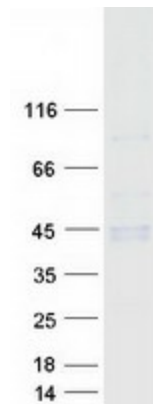
Cytogenetics: 1q23.1

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Hematopoietic cell lineage

### Product images:



Coomassie blue staining of purified CD1B protein (Cat# [TP319131]). The protein was produced from HEK293T cells transfected with CD1B cDNA clone (Cat# [RC219131]) using MegaTran 2.0 (Cat# [TT210002]).