

## Product datasheet for PH321599

### CD1 (CD1A) (NM\_001763) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CD1A MS Standard C13 and N15-labeled recombinant protein (NP_001754)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221599
Predicted MW:	37.17 kDa
Protein Sequence:	>RC221599 representing NM_001763 Red=Cloning site Green=Tags(s)  MLFLLLPLLAVLPGDGNADGLKEPLSFHVIWIASFYNSHWKQNLVSGWLSDLQHTWDSNSSTIVFLWPW SRGNFSNEEWKELETFRIRTIKRSFEGIRRYAHELQFEYPFEIQVTGGCELVHSGKVSFGLQAYQGSDF VSFQNNWLPYPVAGNMAKHFKVNLNQNQHENDITHNLLSDTCPRFILGLLDAGKAHLQRQVKPEAWLSH GPSPGPGHLQLVCHVSGFYKPKVWMMRGEQEQGTQRGDILPSADGTWYLRATLEVAAGEAADLSCRV KHSSLEGQDIVLYWEHSSVGFIIILAVIVPLLLLIGLALWFRKRCFC  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:	<a href="#">NP_001754</a>
RefSeq Size:	2072
RefSeq ORF:	981
Synonyms:	CD1; FCB6; HTA1; R4; T6
Locus ID:	909



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UniProt ID: [P06126](#)

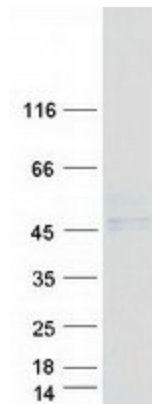
Cytogenetics: 1q23.1

**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 the plasma membrane and to recycling vesicles of the early endocytic system. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Hematopoietic cell lineage

### Product images:



Coomassie blue staining of purified CD1A protein (Cat# [TP321599]). The protein was produced from HEK293T cells transfected with CD1A cDNA clone (Cat# [RC221599]) using MegaTran 2.0 (Cat# [TT210002]).