

Product datasheet for PH304957

Cyclin D1 (CCND1) (NM_053056) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CCND1 MS Standard C13 and N15-labeled recombinant protein (NP_444284)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204957
Predicted MW:	33.7 kDa
Protein Sequence:	>RC204957 protein sequence Red=Cloning site Green=Tags(s) MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVLPMSRKIVATWMLVCEE QKCEEEVFPLAMNYLDRFLSLEPVKKSRLQLLGATCMFVASKMKETIPLTAEKLCIYTDNSIRPEELLQM ELLLVNKLKWNLAAMTPHDFIEHFLSKMPEAEENKQIIRKHAQTFVALCATDVKFISNPPSMVAAGSVVA AVQGLNLRSPNNFLSYYRLTRFLSRVIKCDPDCLRACQEIEALLESSLRQAQQNMDPKAAEEEEEEEE VDLACTPTDVRDVI TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_444284
RefSeq Size:	4304
RefSeq ORF:	885
Synonyms:	BCL1; D11S287E; PRAD1; U21B31
Locus ID:	595



[View online »](#)

UniProt ID: [P24385](#), [Q6FI00](#)

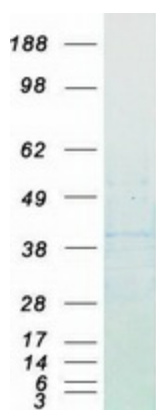
Cytogenetics: 11q13.3

Summary: The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of human cancers. [provided by RefSeq, Dec 2019]

Protein Families: Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway

Protein Pathways: Acute myeloid leukemia, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, Focal adhesion, Glioma, Jak-STAT signaling pathway, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer, Thyroid cancer, Viral myocarditis, Wnt signaling pathway

Product images:



Coomassie blue staining of purified CCND1 protein (Cat# [TP304957]). The protein was produced from HEK293T cells transfected with CCND1 cDNA clone (Cat# [RC204957]) using MegaTran 2.0 (Cat# [TT210002]).