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Product datasheet for PH302442

CDC45L (CDC45) (NM_003504) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CDC45 MS Standard C13 and N15-labeled recombinant protein (NP_003495)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202442
Predicted MW:	65.6 kDa
Protein Sequence:	>RC202442 protein sequence Red=Cloning site Green=Tags(s) MFVSDFRKEFYEVVQSQRVLLFVASDVDALCACKILQALFQCDHVQYTLVPVSGWQELETAFLEHKEQFH YFILINCGANVDLLDILQPDEDTIFFVCDTHRPVNVVNVYNDTQIKLLIKQDDDLEVPAYEDIFRDEEED EEHSGNDSDGSEPSEKRTRLEEEIVEQTMRRRQRREWEARRRDILFDYEQYEYHGTSSAMVMFELAWMLS KDLNDMLWWAIVGLTDQWVQDKITQMKYVTDVGVLQRHVSRHNHRNEDEENTLSVDCTRISFEYDLRLVL YQHWSLHDSLCNTSYTAARFKLWSVHGQKRLQEFLADMGLPLKQVKQKFQAMDISLKENLREMIEESANK FGMKDMRVQTFSIHFGFKHKFLASDVVFATMSLMESPEKDGSGTDHFIQALDSLSRSNLDKLYHGLELAK KQLRATQQTIASCLCTNLVISQGPFLYCSLMEGTPDVMLFSRPASLSLLSKHLLKSFVCSTKNRRCKLLP LVMAAPLSMEHGTVTVVGIPPETDSSDRKNFFGRAFEKAAESTSSRMLHNHFDLSVIELKAEDRSKFLDA LISLLS 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- 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_003495
RefSeq Size:	1998
RefSeq ORF:	1698

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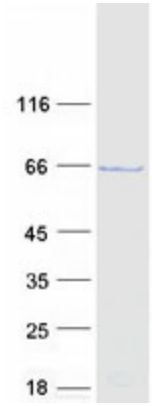
Synonyms:	CDC45L; CDC45L2; MGORS7; PORC-PI-1
Locus ID:	8318
UniProt ID:	O75419
Cytogenetics:	22q11.21
Summary:	The protein encoded by this gene was identified by its strong similarity with Saccharomyces cerevisiae Cdc45, an essential protein required to the initiation of DNA replication. Cdc45 is a member of the highly conserved multiprotein complex including Cdc6/Cdc18, the minichromosome maintenance proteins (MCMs) and DNA polymerase, which is important for early steps of DNA replication in eukaryotes. This protein has been shown to interact with MCM7 and DNA polymerase alpha. Studies of the similar gene in Xenopus suggested that this protein play a pivotal role in the loading of DNA polymerase alpha onto chromatin. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Cell cycle

Product images:



Coomassie blue staining of purified CDC45 protein (Cat# [TP302442]). The protein was produced from HEK293T cells transfected with CDC45 cDNA clone (Cat# [RC202442]) using MegaTran 2.0 (Cat# [TT210002]).