Recombinant Human CDC45 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CDC45-768H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CDC45 MS Standard C13 and N15-labeled recombinant protein (NP_003495) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	65.6 kDa
AA Sequence	MFVSDFRKEFYEVVQSQRVLLFVASDVDALCACKILQALFQCDHVQYTLVPVSGWQ ELETAFLEHKEQFHYFILINCGANVDLLDILQPDEDTIFFVCDTHRPVNVVNVYNDTQI KLLIKQDDDLEVPAYEDIFRDEEEDEEHSGNDSDGSEPSEKRTRLEEEIVEQTMRRR QRREWEARRRDILFDYEQYEYHGTSSAMVMFELAWMLSKDLNDMLWWAIVGLTDQ

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	WVQDKITQMKYVTDVGVLQRHVSRHNHRNEDEENTLSVDCTRISFEYDLRLVLYQH WSLHDSLCNTSYTAARFKLWSVHGQKRLQEFLADMGLPLKQVKQKFQAMDISLKEN LREMIEESANKFGMKDMRVQTFSIHFGFKHKFLASDVVFATMSLMESPEKDGSGTD HFIQALDSLSRSNLDKLYHGLELAKKQLRATQQTIASCLCTNLVISQGPFLYCSLMEG TPDVMLFSRPASLSLLSKHLLKSFVCSTKNRRCKLLPLVMAAPLSMEHGTVTVVGIP PETDSSDRKNFFGRAFEKAAESTSSRMLHNHFDLSVIELKAEDRSKFLDALISLLSTR TRPLEQKLISEEDLAANDILDYKDDDDKV
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	CDC45 cell division cycle 45 [Homo sapiens (human)]
Official Symbol	CDC45
Synonyms	CDC45; cell division cycle 45 homolog (S. cerevisiae); CDC45 (cell division cycle 45, S.cerevisiae, homolog) like, CDC45 cell division cycle 45 like (S. cerevisiae), CDC45L, CDC45L2; cell division control protein 45 homolog; human CDC45; CDC45-related protein; cell division cycle 45-like 2; CDC45 cell division cycle 45 homolog; CDC45L; CDC45L2; PORC-PI-1;

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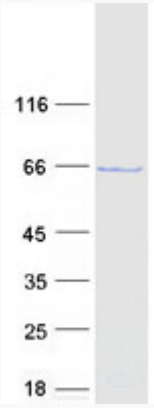
Gene ID	8318
mRNA Refseq	NM_003504
Protein Refseq	NP_003495
MIM	603465
UniProt ID	O75419
SDS-PAGE	

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