Recombinant Full Length Human CDC45 Protein, C-Flag-tagged

Cat. No. CDC45-2085HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CDC45 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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. [
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	65.4 kDa
AA Sequence	MFVSDFRKEFYEVVQSQRVLLFVASDVDALCACKILQALFQCDHVQYTLVPVSGWQ ELETAFLEHKEQFH YFILINCGANVDLLDILQPDEDTIFFVCDTHRPVNVVNVYNDTQI KLLIKQDDDLEVPAYEDIFRDEEED EEHSGNDSDGSEPSEKRTRLEEEIVEQTMRRR

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	QRREWEARRRDILFDYEQYEYHGTSSAMVMFELAWMLS KDLNDMLWWAIVGLTD QWVQDKITQMKYVTDVGVLQRHVSRHNHRNEDEENTLSVDCTRISFEYDLRLVL Y QHWSLHDSLCNTSYTAARFKLWSVHGQKRLQEFLADMGLPLKQVKQKFQAMDISL KENLREMIEESANK FGMKDMRVQTFSIHFGFKHKFLASDVVFATMSLMESPEKDGS GTDHFIQALDSLSRSNLDKLYHGLELAK KQLRATQQTIASCLCTNLVISQGPFLYCSL MEGTPDVMLFSRPASLSLLSKHLLKSFVCSTKNRRCKLLP LVMAAPLSMEHGTVTV VGIPPETDSSDRKNFFGRAFEKAAESTSSRMLHNHFDLSVIELKAEDRSKFLDA LISL LS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Stem cell - Pluripotency
Protein Pathways	Cell cycle
Full Length	Full L.

GENE INFORMATION

Gene Name	CDC45 cell division cycle 45 [Homo sapiens (human)]

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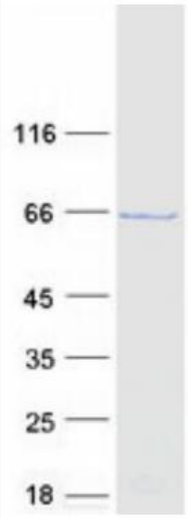
Official Symbol	CDC45
Synonyms	CDC45L; MGORS7; CDC45L2; PORC-PI-1
Gene ID	8318
mRNA Refseq	NM_003504.5
Protein Refseq	NP_003495.1
MIM	603465
UniProt ID	O75419



Coomassie blue staining of purified CDC45 protein.

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