

Recombinant Full Length Human CDC45 Protein, GST-tagged

Cat. No. CDC45-3755HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDC45L full-length ORF (AAH06232, 1 a.a. - 566 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	566 amino acids
Description	The protein encoded by this gene was identified by its strong similarity with <i>Saccharomyces cerevisiae</i> 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 <i>Xenopus</i> 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]
Molecular Mass	88 kDa
AA Sequence	MFVSDFRKEFYEVVQSQRVLLFVASDVDALCACKILQALFQCDHVQYTLVPVSGWQ ELETAFLEHKEQFHIFILINCGANVDLLDILQPDEDITFFVCDTHRPVNVVNVYNDTQI KLLIKQDDDLEVPAYEDIFRDEEEDEEHSGNDSGDSEPSEKRTRLEEEIVEQTMRRR QRREWEARRRDILFDYEQYEHGTSSAMVMFELAWMLSKDLNDMLWWAIVGLTDQ

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WVQDKITQMKYVTDVGVLRHVSRHNRNEDEENTLSVDCTRISFEYDLRLVLYQH
 WSLHDSLCLNTSYTAARFKLWSVHGQKRLQEFLADMGLPLKQVKQKFQAMDISLKEN
 LREMIEESANKFGMKDMRVQTFSIHFGFKHKFLASDVVFATMSLMESPEKDGSGTD
 HFIQALDSLRSNLDKLYHGLELAKKQLRATQQTIASCLCTNLVISQGPFLYCSLMEG
 TPDVMLFSRPASLSLLSKHLLKSFVCSTKNRRCKLLPLVMAAPLSMEHGTVTVVGIP
 PETDSSDRKNFFGRAFEKAAESTSSRMLHNFHDLVIELKAEDRSKFLDALISLLS

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

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

Official Symbol

CDC45

Synonyms

CDC45L; CDC45; cell division cycle 45; MGORS7; CDC45L2; PORC-PI-1; cell division control protein 45 homolog; CDC45 cell division cycle 45 homolog; CDC45 cell division cycle 45-like; CDC45-related protein; cell division cycle 45 homolog; cell division cycle 45-like 2; human CDC45

Gene ID

8318

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mRNA Refseq	NM_001178010
Protein Refseq	NP_001171481
MIM	603465
UniProt ID	O75419

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