

Recombinant Human CDC45 Protein, GST-tagged

Cat. No. CDC45-5135H **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	Wheat Germ
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 ELETAFLEHKEQFHYFILINCGANVDLLDILQPDEDITFFVCDTHRPVNVNVYNDTQI KLLIKQDDDLVPAYEDIFRDEEEDEEHSGNDSGSEPSEKTRTRLEEEIVEQTMRRR QRREWEARRRDILFDYEQYEHGTSSAMVMFELAWMLSKDLNDMLWWAIVGLTDQ WVQDKITQMKYVTDVGVLRHVSRRHNHRNEDEENTLSVDCTRISFEYDLRLVLYQH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

WSLHDSLCNTSYTAARFKLWSVHGQKRLQEFLADMGLPLKQVKQKFQAMDISLKEN
LREMIEESANKFGMKDMRVQTFSIHFGFKHKFLASDVVFATMSLMESPEKDGSGTD
HFIQALDSLRSNLDKLYHGLELAKKQLRATQQTIASCLCTNLVISQGPFLYCSLMEG
TPDVMLFSRPASLSLLSKHLLKSFVCSTKNRRCKLLPLVMAAPLSMEHGTVTVVGIP
PETDSSDRKNFFGRAFEKAAESTSSRMLHNHFDLSVIELKAEDRSKFLDALISLLS

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

mRNA Refseq

NM_001178010

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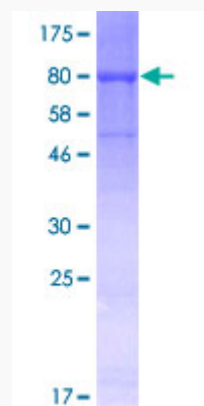
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Protein Refseq NP_001171481

MIM 603465

UniProt ID O75419

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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