

Recombinant Human CDC6, GST-tagged

Cat. No. CDC6-96H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CDC6 encoding human CDC6 partial ORF (434a.a. - 533 a.a.) produced in in vitro wheat germ expression system, was fused a GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
ProteinLength	1-560 aa
Description	The protein encoded by this gene is highly similar to <i>Saccharomyces cerevisiae</i> Cdc6, a protein essential for the initiation of DNA replication. This protein functions as a regulator at the early steps of DNA replication. It localizes in cell nucleus during cell cycle G1, but translocates to the cytoplasm at the start of S phase. The subcellular translocation of this protein during cell cycle is regulated through its phosphorylation by Cdks. Transcription of this protein was reported to be regulated in response to mitogenic signals through transcriptional control mechanism involving E2F proteins.
Sequence	ISQVISEVDGNRM TLSQEGAQDSFPLQQKILVCSLMLLIRQLKIKEVTLGKLYEAYSKV CRKQQVAAVDQSECLSLSGLLLEARGILGLKRNKETRLTKVF
Purification	Glutathione Sepharose 4 Fast Flow
Molecular Weight	36.74 kDa

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Applications	ELISA;WB
StorageBuffer	50 mM Tris-HCl, 10mM reduced Glutathione, pH8.0 in the elution buffer.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
GENE INFORMATION	
Gene Name	CDC6cell division cycle 6 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Official Symbol	CDC6
Synonyms	CDC6; cell division cycle 6 homolog (<i>S. cerevisiae</i>);CDC18L; HsCDC6; HsCDC18; CDC6 (cell division cycle 6, <i>S. cerevisiae</i>) homolog;CDC6 cell division cycle 6 homolog (<i>S. cerevisiae</i>); Cell division controlprotein 6 homolog; p62(cdc6); CDC18 (cell division cycle 18, <i>S.pombe</i> ,homolog)-like; homolog; CDC6 cell division cycle 6 homo; CDC6-relatedprotein; cell division cycle 6 homolog (<i>S. cerevisiae</i>); cell division cycle 6protein
Gene ID	990
mRNA Refseq	NM_001254
Protein Refseq	NP_001245
MIM	602627
UniProt ID	Q99741
Chromosome Location	17q21.3

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Pathway

Activation of ATRin response to replication stress; Cell Cycle, Mitotic; DNA Replication

**CrystalStructure of
CDC6p from P.
aerophilum.**



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