

Recombinant Human CDC27 Protein, GST-Tagged

Cat. No. CDC27-0920H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDC27 full-length ORF (ABM87026.1, 1 a.a. - 830 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene shares strong similarity with <i>Saccharomyces cerevisiae</i> protein Cdc27, and the gene product of <i>Schizosaccharomyces pombe</i> nuc 2. This protein is a component of the anaphase-promoting complex (APC), which is composed of eight protein subunits and is highly conserved in eukaryotic cells. This complex catalyzes the formation of cyclin B-ubiquitin conjugate, which is responsible for the ubiquitin-mediated proteolysis of B-type cyclins. The protein encoded by this gene and three other members of the APC complex contain tetratricopeptide (TPR) repeats, which are important for protein-protein interactions. This protein was shown to interact with mitotic checkpoint proteins including Mad2, p53CDC and BUBR1, and it may thus be involved in controlling the timing of mitosis. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 2, 22 and Y. [provided by RefSeq, May 2014]
Molecular Mass	117.7 kDa
AA Sequence	MTVLQEPVQAAIWQALNHYAYRDAVFLAERLYAEVHSEEALFLLATCYRSGKAYKAYRLLKGHSCTTPQCKYLLAKCCVDLSKLAEGEQILSGGVFNKQKSHDDIVTEFGDSA

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CFTLSLLGHVYCKTDRLAKGSECYQKSLSLNPFLWSPFESLCEIGEKPPDPQTFKFT
 SLQNFSNCLPNSCTTQVPNHSLSHRQPETVLTETPQDTIELNRLNLESSNSKYSLNT
 DSSVSYIDSAVISPDVPLGTGTSILSKQVQNKPKTGRSLLGGPAALSPLTPSFGILPL
 ETSPSGDGSYLQNYTNTPPVIDVPSTGAPSKKTFRVLQSVARIGQTGTSVFSQSGN
 SREVTPILAQTQSSGPQTSTTPQVLSPTITSPNALPRRSSRLFTSDSSTTKENSKKL
 KMKFPPEIPNRKTKSKTNKGGITQPNINDSLEITKLDSSIIEGKISTITPQIQAFNLQKA
 AAEGLSLLREMGKGYLALCSYNCKEAINILSHLPSHHYNTGWVLCQIGRAYFELSE
 YMQAERIFSEVRRIENYRVEGMEIYSTTLWHLQKDVALSVLSKDLTDMDKNSPEAW
 CAAGNCFSLQREHDIAIKFFQRAIQVDPNYAYAYTLLGHEFVLTEELDKALACFRNAI
 RVNPRHYNAWYGLGMIYYKQEKFSLAEMHFQKALDINPQSSVLLCHIGVVQHALKK
 SEKALDTLNKAIVIDPKNPLCKFHRASVLFANEKYKSALQELEELKQIVPKESLVYFLIG
 KVYKKLGQTHLALMNFWSAMDLDPKGANNQIKEAIDKRYLPDDEEPITQEEQIMGTD
 ESQESSMTDADDTQLHAAESDEF

Applications

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

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

CDC27 cell division cycle 27 homolog (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol

CDC27

Synonyms

CDC27; cell division cycle 27 homolog (*S. cerevisiae*); cell division cycle 27,

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D17S978E, D0S1430E; cell division cycle protein 27 homolog; ANAPC3; anaphase promoting complex subunit 3; APC3; NUC2; H-NUC; nuc2 homolog; CDC27 homolog; anaphase-promoting complex subunit 3; anaphase-promoting complex, protein 3; HNUC; CDC27Hs; D0S1430E; D17S978E;

Gene ID 996

mRNA Refseq NM_001114091

Protein Refseq NP_001107563

MIM 116946

UniProt ID P30260

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