

## Recombinant Human CDC27 Protein, GST-Tagged

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

### SPECIFICATION

<b>Product Overview</b>	Human CDC27 full-length ORF (ABM87026.1, 1 a.a. - 830 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	<p>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]</p>
<b>Molecular Mass</b>	117.7 kDa
<b>AA Sequence</b>	MTVLQEPVQAAIWQALNHYAYRDAVFLAERLYAEVHSEEALFLLATCYRSGKAYKAYRLLKGHSCCTTPQCKYLLAKCCVDLSKLAEGEQILSGGVFNKQKSHDDIVTEFGDSA

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CFTLSLLGHVYCKTDRLAKGSECYQKSLSLNPFLWSPFESLCEIGEKPDPDQTFKFT  
 SLQNFSNCLPNSCTTQVPNHSLSHRQPETVLTETPQDTIELNRLNLESSNSKYSLNT  
 DSSVSYIDSAVISPDTVPLGTGTSILSKQVQNKPKTGRSLLGGPAALSPLTPSFGILPL  
 ETSPSPGDGSYLQNYTNTPPVIDVPSTGAPSKKTFRVLQSVARIGQTGTKSVFSQSGN  
 SREVTPILAQTQSSGPQTSTTPQVLSPTITSPNALPRRSSRLFTSDSSTTKENSKKL  
 KMKFPPEIPNRKTKSKTNKGGITQPNINDSLEITKLDSSIISEGKISTITPQIQAFNLQKA  
 AAEGMSLLREMGKGYLALCSYNCKEAINILSHLPSHHYNTGWVLCQIGRAYFELSE  
 YMQAERIFSEVRRRIENYRVEGMEIYSTTLWHLQKDVALSVLSKDLTDMDKNSPEAW  
 CAAGNCFSLQREHDIAIKFFQRAIQVDPNYAYAYTLLGHEFVLTEELDKALACFRNAI  
 RVNPRHYNAWYGLGMIYYKQEKFLAEMHFQKALDINPQSSVLLCHIGVVQHALKK  
 SEKALDTLNKAIVIDPKNPLCKFHRAVLFANEKYKSALQELEELKQIVPKESLVYFLIG  
 KVYKKGQTHLALMNFSWAMDLDPKGANNQIKEAIDKRYLPDDEEPITQEEQIMGTD  
 ESQESSMTDADDTQLHAAESDEF

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	CDC27 cell division cycle 27 homolog ( <i>S. cerevisiae</i> ) [ <i>Homo sapiens</i> ]
<b>Official Symbol</b>	CDC27
<b>Synonyms</b>	CDC27; cell division cycle 27 homolog ( <i>S. cerevisiae</i> ); cell division cycle 27,

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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