

Recombinant Full Length Human CDC27 Protein, GST-tagged

Cat. No. CDC27-3071HF **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	In Vitro Cell Free System
ProteinLength	830 amino acids
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, p55CDC 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	MTVLQEPVQAAIWQALNHYAYRDAVFLAERLYAEVHSEELFLLATCYRSGKAYKA

 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

YRLLKGHSCTTPQCKYLLAKCCVDLSKLAEGEQILSGGVFNKQKSHDDIVTEFGDSA
 CFTLSLLGHVYCKTDRLAKGSECYQKSLSLNPFLWSPFESLCEIGKPDQDQTFKFT
 SLQNFNSCLPNSCTTQVPNHSLSHRQPETVLTETPQDTIELNRLNLESSNSKYSLNT
 DSSVSYIDSAVISPDTPVPLGTGTSILSKQVQNKPKTGRSLLGGPAALSPLTPSFGILPL
 ETPSPGDGSYLQNYTNTPPVIDVPSTGAPSKKTFRVLQSVARIGQTGTSVFSQSGN
 SREVTPIAQTQSSGPQTSTTPQVLSPTITSPNALPRRSSRLFTSDSSTTKENSKKL
 KMKFPPEIPNRKTKSKTNKGGITQPNINDSLEITKLDSSIISEGKISTITPQIQAFNLQKA
 AAEGMSLLREMGKGYLALCSYNCKEAINILSHLPSHHYNTGWVLCQIGRAYFELSE
 YMQAERIFSEVRRIENYRVEGMEIYSTTLWHLQKDVALSVLSKDLTDMDKNSPEAW
 CAAGNCFSLQREHDIAIKFFQRAIQVDPNYAYAYTLLGHEFVLTEELDKALACFRNAI
 RVNPRHYNAWYGLGMIYYKQEKFSLAEMHFQKALDINPQSSVLLCHIGVVQHALLK
 SEKALDTLNKAIVIDPKNPLCKFHRASVLFANEKYKSALQEELKQIVPKESLVYFLIG
 KVYKKLGQTHLALMNFSWAMDLDPKGANNQIKEAIDKRYLPDDEEPITQEEQIMGTD
 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

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