



CDC27 blocking peptide (CDBP5079)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

The protein encoded by this gene shares strong similarity with *Saccharomyces cerevisiae* protein Cdc27, and the gene product of *Schizosaccharomyces pombe* 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]

Conjugate	Unconjugated
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Applications	Used as a blocking peptide in immunoblotting applications.
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Format	Liquid
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Concentration	200 µg/mL
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Size	0.05 mg
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Preservative	None
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Storage	-20°C
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GENE INFORMATION

Gene Name	CDC27 cell division cycle 27 [Homo sapiens (human)]
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Official Symbol	CDC27
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Synonyms	CDC27; cell division cycle 27; APC3; HNUC; NUC2; H-NUC; ANAPC3; CDC27Hs; D0S1430E; D17S978E; cell division cycle protein 27 homolog; nuc2 homolog; cell division cycle 27 homolog; anaphase promoting complex subunit 3; anaphase-promoting complex, protein 3
Entrez Gene ID	996
mRNA Refseq	NM_001114091
Protein Refseq	NP_001107563
UniProt ID	P30260
Pathway	APC/C complex; APC/C-mediated degradation of cell cycle proteins; APC/C:Cdc20 mediated degradation of Cyclin B; APC/C:Cdc20 mediated degradation of Securin; APC/C:Cdc20 mediated degradation of mitotic proteins; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins; Adaptive Immune System
Function	protein binding; protein phosphatase binding