

CDC27 (phospho S427) polyclonal antibody

Catalog # PAB9987

Size 100 ug

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CDC27.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S427 of human CDC27.
Host	Rabbit
Reactivity	Chicken, Chimpanzee, Dog, Human, Mouse, Rat
Specificity	Reactivity occurs against human CDC27 pS427 protein and This antibody is specific to the phosphorylated form of the protein. This antibody does not cross-react with CDC27 phosphorylated at other sites.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:5000-1:25000) Western Blot (1:500-1:2500) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay

Gene Info — CDC27

Entrez GeneID [996](#)

Protein Accession# [P30260:NP_001247](#)

Gene Name CDC27

Gene Alias APC3, CDC27Hs, D0S1430E, D17S978E, HNUC

Gene Description cell division cycle 27 homolog (S. cerevisiae)

Omim ID [116946](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 anaphase-promoting complex (APC), which is composed of eight protein subunits and highly conserved in eucaryotic cells. APC catalyzes the formation of cyclin B-ubiquitin conjugate that is responsible for the ubiquitin-mediated proteolysis of B-type cyclins. This protein and 3 other members of the APC complex contain the TPR (tetratricopeptide repeat), a protein domain important for protein-protein interaction. This protein was shown to interact with mitotic checkpoint proteins including Mad2, p53CDC and BUBR1, and thus may be involved in controlling the timing of mitosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations anaphase-promoting complex, protein 3|cell division cycle protein 27|nuc2 homolog

Publication Reference

- [Early mitotic degradation of the homeoprotein HOXC10 is potentially linked to cell cycle progression.](#)

Gabellini D, Colaluca IN, Vodermaier HC, Biamonti G, Giacca M, Falaschi A, Riva S, Peverali FA.

The EMBO Journal 2003 Jul; 22(14):3715.

- [The dephosphorylated form of the anaphase-promoting complex protein Cdc27/Apc3 concentrates on kinetochores and chromosome arms in mitosis.](#)

Topper LM, Campbell MS, Tugendreich S, Daum JR, Burke DJ, Hieter P, Gorbsky GJ.

Cell Cycle 2002 Jul; 1(4):282.

- [Mad2 transiently associates with an APC/p55Cdc complex during mitosis.](#)

Wassmann K, Benezra R.

PNAS 1998 Sep; 95(19):11193.

Pathway

- [Cell cycle](#)
- [Ubiquitin mediated proteolysis](#)