

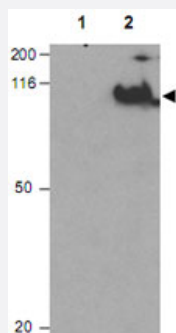
CDC27 (phospho T244) polyclonal antibody

Catalog # PAB9988

Size 100 ug

Applications

Western Blot (Cell lysate)



Western blot using CDC27 (phospho T244) polyclonal antibody (Cat # PAB9988) shows detection of a band ~92 KDa corresponding to phosphorylated human CDC27 (arrowhead).

Lane 1 shows lysate from asynchronous cells.

Lane 2 shows lysate from cells treated with nocodazole.

Phosphorylated CDC27 is mostly present only in cell preparations arrested in mitosis.

Each lane contains approximately 30 ug of HeLa whole cell lysates separated by 12.5% SDS-PAGE followed by transfer to nitrocellulose.

After blocking with 5% non-fat dry milk in TTBS, the membrane was probed with the primary antibody diluted to 1 : 500 for 1 h at room temperature followed by washes and reaction with a 1 : 5,000 dilution of HRP Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature.

ECL reagent was used for detection.

Data contributed by Bing Li, UT South western.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic phosphopeptide of CDC27.

Immunogen

Synthetic phosphopeptide corresponding to residues surrounding T244 of human CDC27.

Host

Rabbit

Reactivity

Bovine, Chicken, Chimpanzee, Dog, Human, Mouse, Rat

Specificity

Reactivity occurs against human CDC27 pT244 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 (1:8000-1:30000) Western Blot (1:300-1:2000) 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.

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- 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	<p>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, p55CDC 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]</p>
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](#)