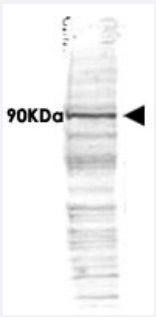
CDC27 polyclonal antibody

Catalog # PAB9986 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot using CDC27 polyclonal antibody (Cat # PAB9986) shows detection of a band ~90 KDa corresponding to human CDC27 (arrowhead). Approximately 35 ug of HeLa whole cell lysate was separated by SDS-PAGE and transferred onto nitrocellulose.
After blocking the membrane was probed with the primary antibody diluted to 1.0 ug/mL for 2 h atroom temperature followed by washes and reaction with a 1 : 10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature.
IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developedby LI-COR.
IRDye is a trademark of LI-COR, Inc.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CDC27.
Immunogen	A synthetic peptide corresponding to amino acids 422-430 of human CDC27.
Host	Rabbit
Reactivity	Chicken, Chimpanzee, Dog, Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:5000-1:40000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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 shoul d be handled by trained staff only.

Applications

- Immunofluorescence
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Cell lysate)

  Western blot using CDC27 polyclonal antibody (Cat # PAB9986) shows detection of a band ~90 KDa corresponding to human CDC27 (arrowhead).
  Approximately 35 ug of HeLa whole cell lysate was separated by SDS-PAGE and transferred onto nitrocellulose.
  After blocking the membrane was probed with the primary antibody diluted to 1.0 ug/mL for 2 h atroom temperature followed by washes and reaction with a 1 : 10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature.
  IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developedby LI-COR.
  IRDye is a trademark of LI-COR, Inc.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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 componen t 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 r esponsible for the ubiquitin-mediated proteolysis of B-type cyclins. This protein and 3 other memb ers of the APC complex contain the TPR (tetratricopeptide repeat), a protein domain important fo r protein-protein interaction. This protein was shown to interact with mitotic checkpoint proteins in cluding 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
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.

  Application: IP, WB, Human, HeLa cells

- 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.

  Application: Func, IF, WB-Ce, Human, HeLa, Ptk1 cells

- Mad2 transiently associates with an APC/p55Cdc complex during mitosis.

  Wassmann K, Benezra R.

  PNAS 1998 Sep; 95(19):11193.

  Application: IP, WB-Ce, Human, HeLa cells

Pathway

- Cell cycle
- Ubiquitin mediated proteolysis

Copyright © 2023 Abnova Corporation. All Rights Reserved.