



Anti-CDC27 (RABBIT) Antibody - 600-401-868

Code: 600-401-868

Size: 100 µg

Product Description: Anti-CDC27 (RABBIT) Antibody - 600-401-868

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Physical State: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	CDC27
Species Reactivity	human
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit anti-CDC27 Antibody, CDC-27, CDC 27, Anaphase Promoting Complex Subunit 3 antibody, APC 3 antibody, CDC27Hs antibody, Cell Division Cycle 27 antibody, Cell division cycle protein 27 homolog antibody
Application Note	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 92 kDa in size corresponding to Cdc27 by western blotting in the appropriate cell lysate or extract.
Background	Cdc27 (also known as cell division cycle protein 27 homologue, CDC27Hs and H-NUC) shares strong similarity with <i>Saccharomyces cerevisiae</i> protein Cdc27, and the gene product of <i>Schizosaccharomyces pombe</i> nuc 2. Cdc27 is a component of anaphase-promoting complex (APC), which is composed of eight protein subunits and highly conserved in eukaryotic 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 (tetratricoptide 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. Cdc27 has a nuclear localization.
Purity And Specificity	This affinity purified antibody is directed against human Cdc27 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, chimpanzee, chicken, rat and dog based on 100% homology for the immunogen sequence. Expect cross reactivity with cdc27 from mouse as only a single amino acid residue change is found for the immunogen sequence. Cross reactivity with cdc27 homologues from other sources has not been determined.
ELISA	1:5,000 - 1:40,000
Western Blot	1:500 - 1:2,000
IF Microscopy	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding amino acids 422-430 of Human cdc27.
General Reference	Gabellini,D., Colaluca,I.N., Vodermaier,H.C., Biamonti,G., Giacca,M., Falaschi,A., Riva,S. and Peverali,F.A. (2003) Early mitotic degradation of the homeoprotein HOXC10 is potentially linked to cell cycle progression. EMBO J. 22 (14), 3715-3724. Topper,L.M., Campbell,M.S., Tugendreich,S., Daum,J.R., Burke,D.J., Hieter,P. and Gorbsky,G.J. (2002) The dephosphorylated form of the anaphase-promoting complex protein Cdc27/Apc3 concentrates on kinetochores and chromosome arms in mitosis. Cell Cycle 1 (4), 282-292. Wassmann,K. and Benezra,R. (1998) Mad2 transiently associates with an APC/p55Cdc complex during mitosis. Proc. Natl. Acad. Sci. U.S.A. 95 (19), 11193-11198.
Related Products	

200-301-268

Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268

610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

Related Links

UniProtKB - P30260

<http://www.uniprot.org/uniprot/P30260>

NCBI - 167466175 <http://www.ncbi.nlm.nih.gov/protein/167466175>

GeneID - 996

Images

- 1 Western blot using Rockland's Affinity Purified anti-cdc27 antibody 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 1.0ug/ml for 2 h at room temperature followed by washes and reaction with a 1:10,000 dilution of IRDye800 conjugated Goat-a-Rabbit IgG [H&L] MX (611-132-122) for 45 min at room temperature. IRDye800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



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