

Datasheet for 600-401-866**CDC27 phospho S426 Antibody****Overview**

Description:	Anti-CDC27 pS426 (RABBIT) Antibody - 600-401-866
Item No.:	600-401-866
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Rat, Chicken, Chimpanzee, Dog
Host Species:	Rabbit

Product Details

Background:	Human CDC27 (also called Cell division cycle protein 27 homolog, CDC27Hs and H-NUC) shares strong similarity with <i>Saccharomyces cerevisiae</i> protein Cdc27. This protein 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 a 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.
Synonyms:	rabbit anti-CDC27 pS426 Antibody, CDC 27, CDC-27, Cell division cycle protein 27 homolog, H-NUC, APC3, Anaphase-promoting complex subunit 3, ANAPC3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CDC27, D0S1430E
Reactivity:	Human, Rat, Chicken, Chimpanzee, Dog
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phospho-peptide corresponding to an internal portion of Human cdc27 amino acids 415-445 surrounding S426.
Purity/Specificity:	This affinity purified antibody is directed against the phosphorylated form of human CDC27 at the pS426 residue. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross adsorbed against the non-phosphorylated form of the immunizing peptide. Reactivity occurs against human CDC27 pS426 protein and the antibody is specific for the phosphorylated form of the protein. Reactivity with non-phosphorylated human CDC27 is minimal by ELISA. The antibody does not cross-react with CDC27 phosphorylated at other sites. A BLAST analysis was used to suggest reactivity with this protein from human, rat, dog, chicken and chimpanzee based on 100% homology for the immunogen sequence. Cross reactivity with CDC27 protein from mouse may occur as sequence homology varies by one amino acid residue in this sequence (89% homology). Cross reactivity with CDC27 homologues from other sources has not been determined.
Relevant Links:	• UniProtKB - P30260 • NCBI - 167466175 • GenelD - 996

Application Details

Tested Applications:	ELISA, WB
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 91 kDa in size corresponding to CDC27 by western blotting in the appropriate cell lysate or extract. Less than 1% reactivity is observed against the non-phosphorylated form of the immunizing peptide. This antibody is phospho specific for pS426 of CDC27.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
IP:	1:100
WB:	1:500 - 1:2,500

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	.99 mg/mL by UV absorbance at 280 nm

Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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.
Expiration:	Expiration date is one (1) year from date of receipt.

References

- Pina MA et al. Targeting SIK2 with GRN-300 Potentiates Paclitaxel Efficacy in Triple-Negative Breast Cancer. *Cancers (Basel)* (2026)

Disclaimer

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