

# CDC27 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1417a

## Product Information

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<b>Application</b>	WB, IHC, E
<b>Primary Accession</b>	<a href="#">P30260</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	5C12
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	91867
<b>Description</b>	Cdc27 shares strong similarity with <i>Saccharomyces cerevisiae</i> protein Cdc27, and the gene product of <i>Schizosaccharomyces pombe</i> nuc 2. It is a component of the Anaphase Promoting Complex (APC), which is composed of eight protein subunits and is highly conserved in eucaryotic cells. The APC catalyzes the formation of the 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.
<b>Immunogen</b>	Purified recombinant fragment of human CDC27 expressed in E. Coli.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	996
<b>Other Names</b>	Cell division cycle protein 27 homolog, Anaphase-promoting complex subunit 3, APC3, CDC27 homolog, CDC27Hs, H-NUC, CDC27, ANAPC3, D0S1430E, D17S978E
<b>Dilution</b>	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~N/A
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	CDC27 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	CDC27
<b>Synonyms</b>	ANAPC3, DOS1430E, D17S978E
<b>Function</b>	Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle (PubMed: <a href="#">18485873</a> ). The APC/C complex acts by mediating ubiquitination and subsequent degradation of target proteins: it mainly mediates the formation of 'Lys-11'-linked polyubiquitin chains and, to a lower extent, the formation of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains (PubMed: <a href="#">18485873</a> ). The APC/C complex catalyzes assembly of branched 'Lys-11'-/'Lys-48'-linked branched ubiquitin chains on target proteins (PubMed: <a href="#">29033132</a> ).
<b>Cellular Location</b>	Nucleus. Cytoplasm, cytoskeleton, spindle

## References

1. Mol Cell Biol. 2004 May;24(9):3577-87. 2. J Biol Chem. 2004 Oct 1;279(40):42128-38.

## Images

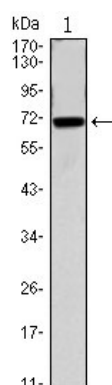


Figure 1: Western blot analysis using CDC27 mouse mAb against CDC27(AA: 724-830)-hIgGFc transfected HEK293 cell.

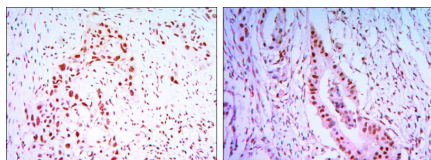


Figure 2: Immunohistochemical analysis of paraffin-embedded lung cancer tissues (left) and colon cancer tissues (right) using CDC27 mouse mAb with DAB staining.

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