

CDC27 monoclonal antibody, clone AF3.1

Catalog # MAB7304

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of CDC27.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 814-823 of human CDC27.
Host	Mouse
Reactivity	Bovine, Dog, Human, Mouse, Rat, Xenopus
Specificity	Cdc27 (AF3.1). In WB detects a band of approximately 97 KDa.
Form	Liquid
Isotype	IgG2a
Recommend Usage	Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS, pH 7.4
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry
- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay

Gene Info — CDC27

Entrez GeneID [996](#)

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 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, p53CDC 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

- [Expression of the CDH1-associated form of the anaphase-promoting complex in postmitotic neurons.](#)

Gieffers C, Peters BH, Kramer ER, Dotti CG, Peters JM.

PNAS 1999 Sep; 96(20):11317.

Application: IHC, IF, WB-Ce, WB-Ti, Human, Mouse, Rat, HeLa cells, Mouse brains, Rat hippocampal neurons

- [The role of the destruction box and its neighbouring lysine residues in cyclin B for anaphase ubiquitin-dependent proteolysis in fission yeast: defining the D-box receptor.](#)

Yamano H, Tsurumi C, Gannon J, Hunt T.

The EMBO Journal 1998 Oct; 17(19):5670.

Application: IP, Xenopus, Egg

- [The ubiquitin pathway for protein degradation.](#)

Hershko A.

Trends in Biochemical Sciences 1991 Jul; 16(7):265.

Pathway

- [Cell cycle](#)
- [Ubiquitin mediated proteolysis](#)