
anti-Cdc6

Cat #: HM1079
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Cell cycle events are regulated by the sequential activation and deactivation of cyclin dependent kinases (Cdks) and by the proteolysis of cyclins. The cell division cycle (Cdc) genes are required at various points in the cell cycle. Cdc6 is the human homolog of *Saccharomyces cerevisiae* Cdc6, a protein essential for the initiation of DNA replication. It localizes in cell nucleus during cell cycle G1, but translocates to the cytoplasm at the start of S phase. The subcellular translocation of Cdc6 during cell cycle is regulated through its phosphorylation by Cdks.

SPECIFICITY

This antibody specifically recognizes Cdc6 of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A recombinant protein representing full-length Cdc6 of human origin

STORAGE

This antibody is stable for 24 months when stored at 2-8°C.

REFERENCE

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2. Yan, Z., DeGregori, J., Shohet, R., Leone, G., Stillman, B., Nevins, J.R. and Williams, R.S. 1998. Cdc6 is regulated by E2F and is essential for DNA replication in mammalian cells. Proc. Natl. Acad. Sci. U.S.A. 95, 3603-3608.
3. Delmolino, L.M., Saha, P. and Dutta, A. 2001. Multiple mechanisms regulate subcellular localization of human CDC6. J. Biol. Chem. 276, 26947-26954.
4. Robles, L.D., Frost, A.R., Davila, M., Hutson, A.D., Grizzle, W.E. and Chakrabarti, R. 2002. Down-regulation of Cdc6, a cell cycle regulatory gene, in prostate cancer. J. Biol. Chem. 277, 25431-25438.

5. Clay-Farrace, L., Pelizon, C., Santamaria, D., Pines, J. and Laskey, R.A. 2003. Human replication protein Cdc6 prevents mitosis through a checkpoint mechanism that implicates Chk1. EMBO J. 22, 704-712.

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