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**anti-Cdk1/Cdc2**

Cat #: HM1083  
Mouse monoclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

Cyclin dependent kinases (Cdks) are critical regulators of cell cycle progression. Members of this protein family include Cdk1/Cdc2 p34, Cdk2, Cdk4, Cdk6 and a related protein Cdc7. Cdks associate with specific regulatory subunits (Cyclins) to form an active complex. The best characterized complex is the association of cyclin B with p34Cdc2 kinase. The p34Cdc2/cyclin B complex is required for the G2 to M transition.

**SPECIFICITY**

This antibody specifically recognizes Cdk1/Cdc2 of human, mouse and rat origin.

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

**IMMUNOGEN**

A recombinant protein corresponding to the carboxy terminus of Cdk1 of human origin.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCE**

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2. Draetta, G., Brizuela, L., Potashkin, J., and Beach, D. 1987. Identification of p34 and p13, human homologs of the cell cycle regulators of fission yeast encoded by cdc2+ and suc 1+. *Cell* 50: 319-325.
3. Arion, D., Meijer, L., Brizuela, L., and Beach, D. 1988. cdc2 is a component of the M phase-specific histone H1 kinase: evidence for identity with MPF. *Cell* 55: 371-378.
4. Morla, A.O., Draetta, G., Beach, D., and Wang J.Y.J. 1989. Reversible tyrosine phosphorylation of cdc2: dephosphorylation accompanies activation during entry into mitosis. *Cell* 58: 193-203.
5. Jessus, C. and Beach, D. 1992. Oscillation of MPF is accompanied by periodic association between cdc25 and cdc2-cyclin B. *Cell* 68: 323-332.
6. Pines, J. and Hunter, T. 1989. Isolation of a human cyclin cDNA: evidence for cyclin mRNA and protein regulation in the cell cycle and for interaction with p34cdc2. *Cell* 58: 833-846.

7. Tsai, L.-H., Harlow, E., and Meyerson, M. 1991. Isolation of the human cdk2 gene that encodes the cyclin A- and adenovirus E1A-associated p33 kinase. *Nature* 353: 174-177.

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