
anti-Cdk6

Cat #: HM1404
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Cdk6 is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of *Saccharomyces cerevisiae* cdc28, *Schizosaccharomyces pombe* cdc2, and are known to be important regulators of cell cycle progression. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of this kinase first appears in mid-G1 phase, which is controlled by the regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. Cdk6, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb.

SPECIFICITY

The antibody reacts with Cdk6 of human, mouse and rat origin by Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

Full length recombinant human Cdk6 protein.

STORAGE

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

REFERENCE

1. Meyerson, M., Enders, G.H., Wu, C., Su, L., Gorka, C., Nelson, C., Harlow, E. and Tsai, L. 1992. A family of human cdc2-related protein kinases. *EMBO J.* 11: 2909-2917.
2. Morris, M., Hepburn, P. and Wynford-Thomas, D. 2002. Sequential extension of proliferative lifespan in human fibroblasts induced by over-expression of CDK4 or 6 and loss of p53 function. *Oncogene* 21, 4277-4288.
3. Schulze-Gahmen, U. and Kim, S.H. 2002. Structural basis for CDK6 activation by a virus-encoded cyclin. *Nat. Struct. Biol.* 9, 177-181.
4. Brotherton, D.H., Dhanaraj, V., Wick, S., Brizuela, L., Domaille, P.J., Volyanik, E., Xu, X., Parisini, E., Smith, B.O., Archer, S.J., Serrano, M., Brenner, S.L., Blundell, T.L. and

Laue, E.D. 1998. Crystal structure of the complex of the cyclin D-dependent kinase Cdk6 bound to the cell-cycle inhibitor p19INK4d. *Nature* 395, 244-250.

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