

anti-p27

Cat #: HM1263
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Cell cycle progression is regulated by protein complexes that consist of catalytic subunits (Cdks) and activating subunits (cyclins). Several proteins have been identified as cell cycle regulatory mitotic inhibitors of cdk. These include p21, p16, p15 and p27/KIP1. p27 interacts with D-type cyclins and Cdk4 and to a lesser extent with cyclin E and Cdk2. p27 is a negative regulator of G1 progression and functions as a possible mediator of TGF beta induced G1 arrest. p27/KIP 1 is a candidate tumor suppressor gene.

SPECIFICITY

This antibody recognizes p27 of human, rat and mouse origin.

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

IMMUNOGEN

Full-length recombinant human p27 protein.

STORAGE

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

REFERENCE

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4. Hannon, G.J. and Beach, D. 1994. p15INK4B is a potential effector of TGF-induced cell cycle arrest. *Nature* 371: 257-260.
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6. Hengst, L., Dulic, V., Slingerland, J.M., Lees, E., and Reed, S.I. 1994. A cell cycle-regulated inhibitor of cyclin-dependent kinases. *Proc. Natl. Acad. Sci. USA* 91: 5291-5295.

7. Polyak, K., Lee, M.-H., Erdjument-Bromage, H., Koff, A., Roberts, J.M., Tempst, P., and Massagué, J. 1994. Cloning of p27Kip1, a cyclin-dependent kinase inhibitor and a potential mediator of extracellular antimitogenic signals. *Cell* 78: 59-66.
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