
anti-p16

Cat #: HM1260
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Cell cycle is regulated by cyclin dependent kinases (Cdks). The cyclins function as positive regulators of Cdks. Negative regulators include 21 kDa WAF1/Cip1 protein designated p21, Kip 1 p27 and p16. Cdk4 and cyclin D have been implicated in the control of cell proliferation during G1 phase. p16 binds to Cdk4 and inhibits the catalytic activity of the Cdk4/cyclin D complex. p16 can stabilize p53 by interacting with and sequestering MDM1, a protein responsible for the degradation of p53. p16 gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene.

SPECIFICITY

This antibody recognizes p16 of human, rat and mouse origin.

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

IMMUNOGEN

Full-length recombinant human p16 protein.

STORAGE

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

REFERENCE

1. Aagaard L et al. 1995. Aberrations of p16Ink4 and retinoblastoma tumour-suppressor genes occur in distinct sub-sets of human cancer cell lines. *Int J Cancer* 61:115-20.
2. Caldas C et al. 1994. Frequent somatic mutations and homozygous deletions of the p16 (MTS1) gene in pancreatic adenocarcinoma. *Nat Genet* 8:27-32.
3. Guan KL et al. 1994. Growth suppression by p18, a p16INK4/MTS1- and p14INK4B/MTS2-related CDK6 inhibitor, correlates with wild-type pRb function. *Genes Dev* 8:2939-52.

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