

## CDK4 monoclonal antibody

Catalog: MB23155

Host: Mouse

Reactivity: Human, Mouse, Monkey

### BackGround:

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of *S. cerevisiae* cdc28 and *S. pombe* cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported.

### Product:

Purified antibody in PBS with 0.05% sodium azide

### Molecular Weight:

33.7kda

### Swiss-Prot:

P11802

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 FC:1/200 - 1/400

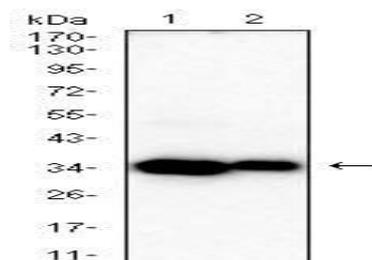
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

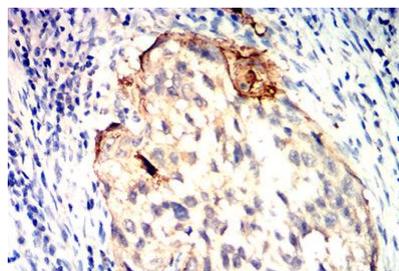
### Isotype:

Mouse IgG2a

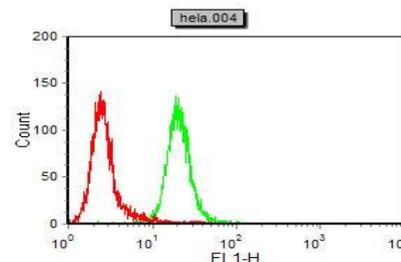
### DATA:



Western blot analysis using CDK4 mouse mAb against COS-7 (1), and NIH/3T3 (2) cell lysate.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using CDK4 mouse mAb with DAB staining.



Flow cytometric analysis of HeLa cells using CDK4 mouse mAb (green) and negative control (red).

### Note:

For research use only, not for use in diagnostic procedure.

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