

## CDKN2A monoclonal antibody

Catalog: MB21801

Host: Mouse

Reactivity: Human

### Background:

This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene; this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, MDM1, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene.

### Product:

Purified antibody in PBS with 0.05% sodium azide.

### Molecular Weight:

16.5kDa

### Swiss-Prot:

P42771

### 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:

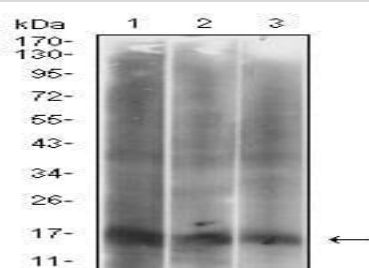
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

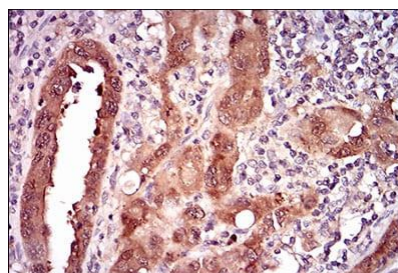
### Isotype:

Mouse IgG1

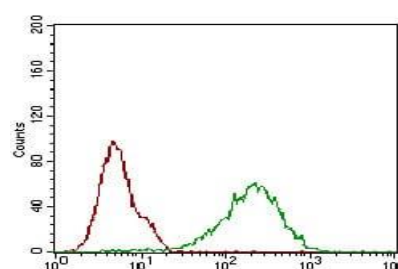
### DATA:



Western blot analysis using CDKN2A mouse mAb against HeLa (1), HepG2 (2) and Hek293 (3) cell lysate.



Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissues using CDKN2A mouse mAb with DAB staining.



Flow cytometric analysis of HeLa cells using CDKN2A mouse mAb (green) and negative control (red).

### Note:

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

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## PRODUCT DATA SHEET

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