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CDKN2A Antibody
Catalog # ASC12187

Specification

CDKN2A Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P42771
Other Accession	NP_000068
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 17kD**
	Observed: 17kD KDa

CDKN2A Antibody - Additional Information

Gene ID	**1029**
Alias Symbol	**CDKN2A**

Other Names
CDKN2A Antibody: ARF, MLM, P14, P16, P19, CMM2, INK4, MTS1, TP16, CDK4I, CDKN2, INK4A, MTS-1, P19ARF, P16INK4, P16INK4A, P16-INK4A, Cyclin-dependent kinase 4 inhibitor A

Reconstitution & Storage
CDKN2A antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
CDKN2A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CDKN2A Antibody - Protein Information

Name CDKN2A (HGNC:1787)

Synonyms CDKN2, MTS1

Function
Acts as a negative regulator of the proliferation of normal cells by interacting strongly with CDK4 and CDK6. This inhibits their ability to interact with cyclins D and to phosphorylate the retinoblastoma protein.

Cellular Location
Cytoplasm. Nucleus

Tissue Location
Widely expressed but not detected in brain or skeletal muscle. Isoform 3 is pancreas-specific

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CDKN2A Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CDKN2A Antibody - Images

CDKN2A Antibody - Background

CDKN2A Antibody: The CDKN2A locus gives rise to 2 distinct transcripts from different promoters. The transcripts have been designated p16(INK4A) and p14(ARF). This chromosomal region undergoes a number of inversions, translocations, heterozygous deletions, and homozygous deletions in a variety of malignant cell lines including those from glioma, non-small cell lung cancer, leukemia, and melanoma. Deletion of the region containing CDKN2A is found in more than half of all melanoma cell lines. Conversely, transfection of CDKN2A suppressed the growth of two independent mesothelioma cell lines, suggesting that inactivation of the CDKN2 gene is an essential step in the etiology of malignant mesotheliomas. CDKN2A induces a G1 cell cycle arrest by inhibiting the phosphorylation of the Rb protein by the cyclin-dependent kinases CDK4 and CDK6. CDKN2A is expressed as at least three distinct isoforms.

CDKN2A Antibody - References

Stone et al. Cancer Res. 1995; 55:2988-94. Kamb et al. Nature Genet. 1994; 8:22-6. Kratzke et al. J. Nat. Cancer Inst. 1995; 87:1870-5.Stott et al. EMBO J. 1998; 17:5001-14.