

# [KO Validated] CDKN2A/p16INK4a Rabbit pAb

Catalog No.: A0262 **KO** **Validated** **12 Publications**

## Basic Information

### Catalog No.

A0262

### Observed MW

17KDa

### Calculated MW

8kDa/11kDa/12kDa/13kDa/16kDa/17kDa

### Category

Primary antibody

### Applications

WB, IHC, IF, IP

### Cross-Reactivity

Human, Mouse, Rat

## Recommended Dilutions

<b>WB</b>	1:500 - 1:2000
<b>IHC</b>	1:50 - 1:200
<b>IF</b>	1:50 - 1:200
<b>IP</b>	1:50 - 1:200

## Contact



[www.abclonal.com](http://www.abclonal.com)

## 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, the E3 ubiquitin-protein ligase MDM2, 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.

## Immunogen Information

### Gene ID

1029

### Swiss Prot

P42771/Q8N726

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 20 to the C-terminus of human CDKN2A/p16INK4a

### Synonyms

CDKN2A;ARF;CDK4I;CDKN2;CMM2;INK4;INK4A;MLM;MTS-1;MTS1;P14;P14ARF;P16;P16-INK4A;P16INK4;P16INK4A;P19;P19ARF;TP16

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

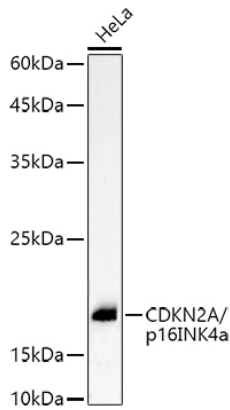
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of extracts of HeLa cells, using CDKN2A/p16INK4a antibody (A0262) at 1:1000 dilution.

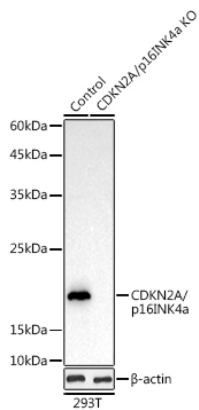
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 180s.



Western blot analysis of extracts from normal (control) and CDKN2A/p16INK4a knockout (KO) 293T cells, using CDKN2A/p16INK4a antibody (A0262) at 1:1000 dilution.

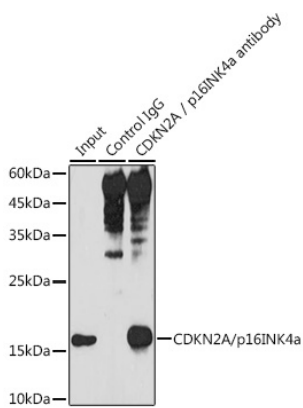
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

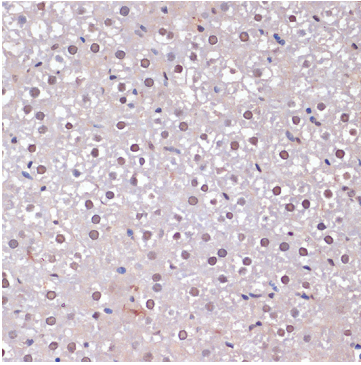
Exposure time: 180s.



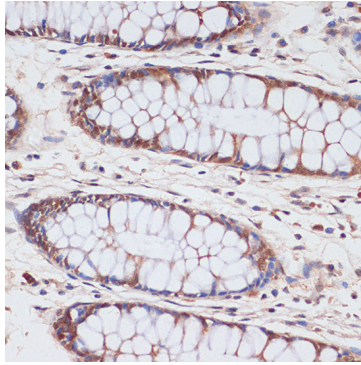
Immunoprecipitation analysis of 300ug extracts of HeLa cells using 3ug CDKN2A/p16INK4a antibody (A0262). Western blot was performed from the immunoprecipitate using CDKN2A/p16INK4a antibody (A0262) at a dilution of 1:1000.

## Validation Data

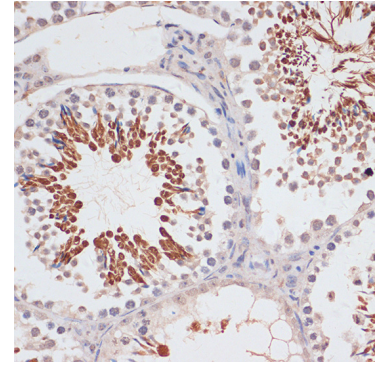
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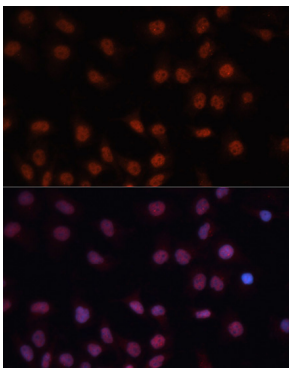
Immunohistochemistry of paraffin-embedded Rat liver using CDKN2A/p16INK4a antibody (A0262) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Human colon using CDKN2A/p16INK4a antibody (A0262) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Mouse testis using CDKN2A/p16INK4a antibody (A0262) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of HeLa cells using CDKN2A/p16INK4a antibody (A0262) at dilution of 1:100. Blue: DAPI for nuclear staining.