

# P16-INK4A Polyclonal antibody

Catalog Number: 10883-1-AP

Featured Product

304 Publications

## Basic Information

## Catalog Number:

10883-1-AP

## Size:

650 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG1328

## GenBank Accession Number:

BC021998

## GeneID (NCBI):

1029

## UNIPROT ID:

Q8N726

## Full Name:

cyclin-dependent kinase inhibitor 2A  
(melanoma, p16, inhibits CDK4)

## Calculated MW:

16 kDa

## Observed MW:

16-18 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 µg for 1.0-3.0 mg of total  
protein lysate

IHC 1:1000-1:4000

## Applications

## Tested Applications:

FC, IHC, IP, WB, ELISA

## Cited Applications:

Cell treatment, FC, IP, WB

## Species Specificity:

human

## Cited Species:

human, monkey, canine

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

## Positive Controls:

WB : HEK-293 cells, HEK293 cells, HeLa cells, HepG2  
cells, PC-3 cells

IP : HEK-293 cells,

IHC : human cervical cancer tissue,

## Background Information

CDKN2A generates several transcript variants which differ in their first exons. At least three alternatively-spliced variants encoding distinct proteins were reported. Two of them named p16-INK4 and p14 are sharing 50% identity. The third one -p14(ARF) is entirely unrelated. 10883-1-AP reacts with p16 specifically. P16 plays an essential role in regulating the cell cycle, and mutations in p16 increase the risk of developing various cancers, including melanoma.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shin Hamada	28971839	Am J Physiol Gastrointest Liver Physiol	
Julie Wang	26416809	Circulation	WB
Shengya Tian	31562192	Life Sci Alliance	WB

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

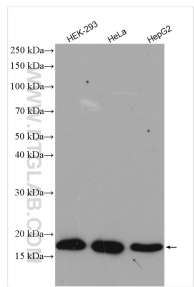
For technical support and original validation data for this product please contact:

T: 4006900926

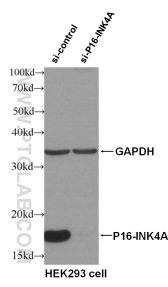
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech  
Group brand and is not available to purchase from any  
other manufacturer.**

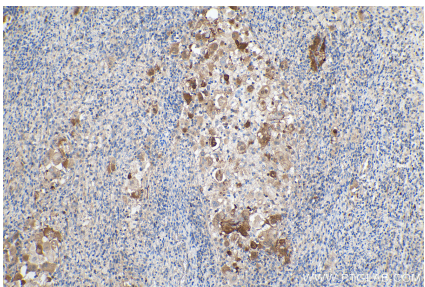
Selected Validation Data



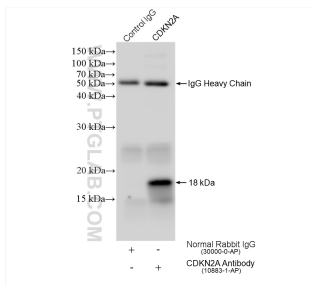
Various lysates were subjected to SDS PAGE followed by western blot with 10883-1-AP (P16-INK4A antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



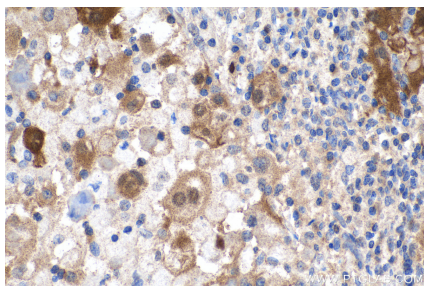
WB result of p16-INK4A antibody (10883-1-AP, 1:2,000) with si-Control and si-p16 transfected HEK-293 cells.



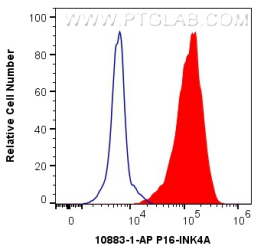
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10883-1-AP (P16-INK4A antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-P16-INK4A (IP:10883-1-AP, 4ug; Detection:10883-1-AP 1:4000) with HEK-293 cells lysate 1400 ug.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10883-1-AP (P16-INK4A antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.5 ug Anti-Human P16-INK4A (10883-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).