For Research Use Only

CDKN2A/P16-INK4A Polyclonal antibody

Catalog Number:10883-1-AP Featured Product 455 Publications

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Basic Information

Catalog Number:
10883-1-AP

Concentration:
650 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1328

GenBank Accession Number:
BC021998

GeneID (NCBI):
1029

UNIPROT ID:
P42771

Full Name:
cyclin-dependent kinase inhibitor 2A

Calculated MW:
16 kDa

Observed MW:
16-18 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:1000-1:4000
IF/ICC: 1:200-1:800
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, IHC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IP, CoIP

Species Specificity:
human, dog

Cited Species:
human, pig, rabbit, canine, monkey, bovine

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,

IF/ICC : MDCK cells,

FC (Intra) : HeLa cells,

Background Information

CDKN2A generates several transcript variants which differ in their first exons. At least three alternatively-spliced variants encoding distinct proteins 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

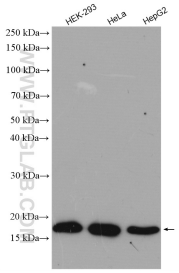
Author	Pubmed ID	Journal	Application
Shin Hamada	28971839	Am J Physiol Gastrointest Liver Physiol	IHC
Julie Wang	26416809	Circulation	WB
Shengya Tian	31562192	Life Sci Alliance	WB

Storage

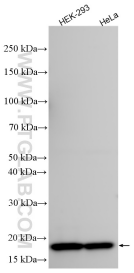
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

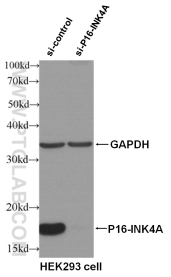
Selected Validation Data



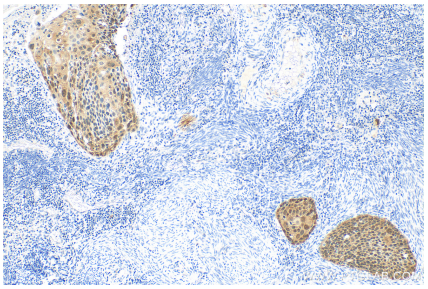
Various lysates were subjected to SDS PAGE followed by western blot with 10883-1-AP (P16-INK4A antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



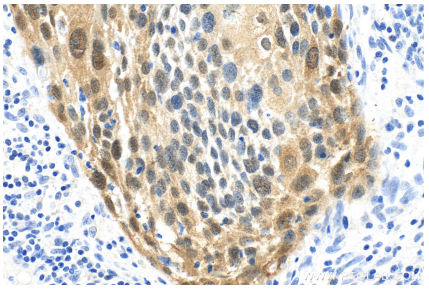
Various lysates were subjected to SDS PAGE followed by western blot with 10883-1-AP (CDKN2A/P16-INK4A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



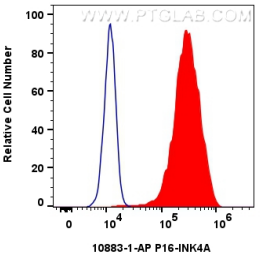
WB result of p16-INK4A antibody (10883-1-AP, 1:2,000) with si-Control and si-p16 transfected HEK-293 cells.



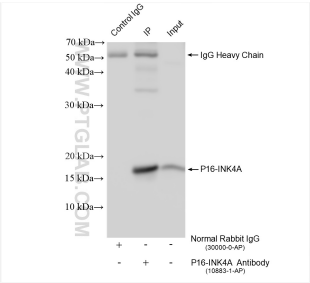
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10883-1-AP (P16-INK4A antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



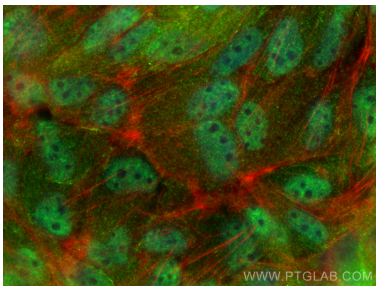
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10883-1-AP (P16-INK4A antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human P16-INK4A (10883-1-AP)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



IP result of anti-P16-INK4A (IP:10883-1-AP, 4ug; Detection:10883-1-AP 1:5000) with HEK-293 cells lysate 1560 ug.



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using P16-INK4A antibody (10883-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).