

For Research Use Only

P16-INK4A Polyclonal antibody

Catalog Number: 30519-1-AP

2 Publications



Basic Information

Catalog Number:

30519-1-AP

Size:

900 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG29567

GenBank Accession Number:

NM_000077

GeneID (NCBI):

1029

UNIPROT ID:

P42771

Full Name:

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

Calculated MW:

17 kDa

Observed MW:

16 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

Applications

Tested Applications:

WB, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

WB : HEK-293 cells, HeLa cells

IP : HEK-293 cells,

Background Information

P16-INK4A is also named as CDKN2A, MLM, Tumor suppressor ARF, Alternative reading frame. The tumor suppressor protein p16Ink4a (encoded from the CDKN2A locus) is often transcriptionally activated in cells undergoing senescence and is one of the main regulators of this program, and it is upregulated in multiple tissues during aging (PMID:17055429). p16-Ink4a is the principal member of the Ink4 family of CDK inhibitors. p16-Ink4a contributes to the regulation of cell cycle progression by inhibiting the S phase. p16Ink4a binds to CDK4/6, inhibiting cyclin D-CDK4/6 complex formation and CDK4/6-mediated phosphorylation of Rb family members. Expression of p16-Ink4a maintains the Rb family members in a hypophosphorylated state, which promotes binding to E2F1 and leads to G1 cell cycle arrest (PMID: 21297668).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|-----------------------------------|-------------|
| Xueling He | 39741388 | Aging Cell | IHC |
| En-Xiang Chen | 38838858 | Biochim Biophys Acta Mol Cell Res | 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:

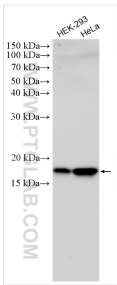
T: 4006900926

E: Proteintech-CN@ptglab.com

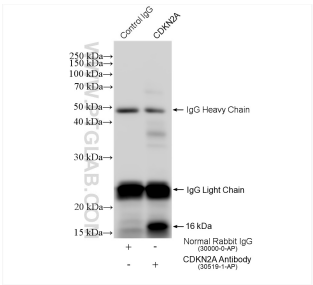
W: ptgcn.com

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

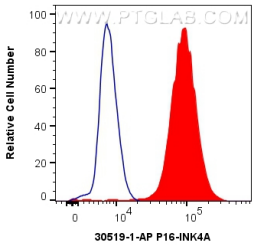
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30519-1-AP (P16-INK4A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-P16-INK4A (IP:30519-1-AP, 4ug; Detection:30519-1-AP 1:1000) with HEK-293 cells lysate 1280 ug.



1X10⁶ HeLa cells were intracellularly stained with 0.8 ug Anti-Human P16-INK4A (30519-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.8 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).