

Anti-CDKN2A/p16INK4a Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

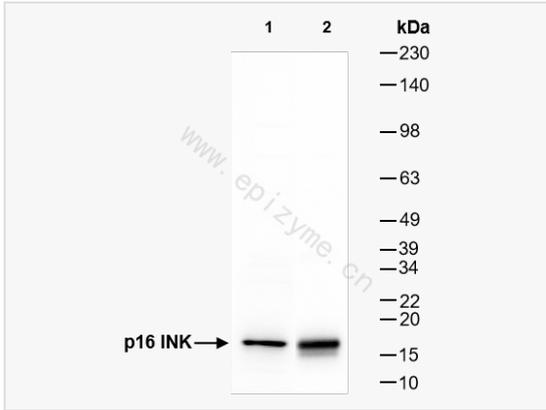
Catalog # R014496

Product Information

| | |
|-------------|--|
| Application | IF (Cell)/ICC, ELISA, WB, IHC-P/IF (Tissue-P) |
| Reactivity | Human |
| Dilution | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 62N91M33 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human p16 INK |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-CDKN2A/p16INK4a Rabbit mAb [62N91M33] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|-------------------|---|
| Synonyms | CCM2, CDK4 inhibitor p16 INK4, CDK4I, CDKN2, CDKN2A, Cell cycle negative regulator beta, CMM2, Cyclin dependent kinase 4 inhibitor A, Cyclin dependent kinase inhibitor 2A (melanoma p16 inhibits CDK4), Cyclin Dependent Kinase Inhibitor 2A, Cyclin dependent kinase inhibitor 2A isoform 4, Cyclin dependent kinase inhibitor 2A isoforms 1/2/3, Cyclin dependent kinase inhibitor p16, INK4, INK4A, MLM, MTS1, Multiple tumor suppressor 1, p14, p16, P16INK4, p16INK4a, p19, p19Arf, TP16. |
| Calculated MW | Calculated MW: 17 kDa; Observed MW: 17 kDa |
| Uniprot ID | P42771 |
| Gene ID | 1029 |
| Background | p16-INK4A a cell-cycle regulatory protein that Interacts with CDK4 and CDK6, inhibiting their ability to interact with cyclins D. Inhibits the phosphorylation of the retinoblastoma protein by CDK4 or CDK6. Four alternatively spliced isoforms have been reported. |
| Cellular Location | Cytoplasmic and Nuclear |



Western Blot - Anti-CDKN2A/p16INK4a Rabbit mAb [62N91M33]

All lanes: R014496 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

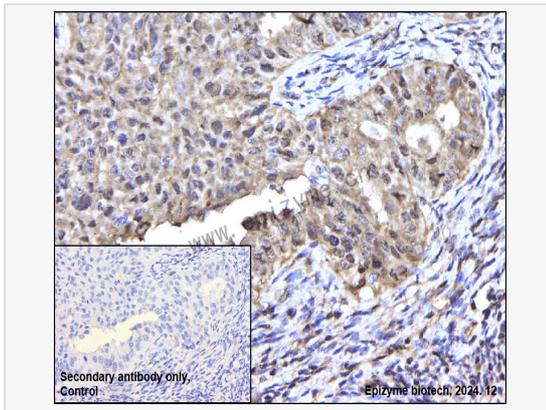
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 17 kDa

Observed band size: 17 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-CDKN2A/p16INK4a Rabbit mAb [62N91M33]

Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

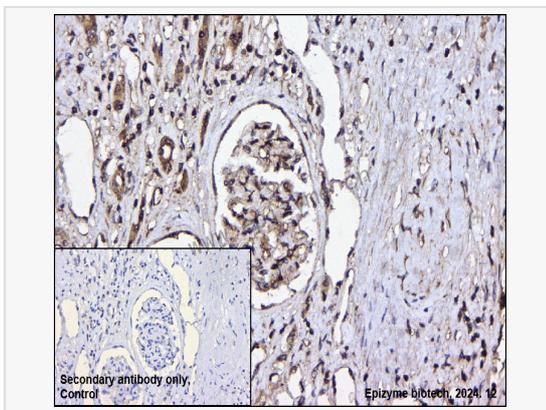
Primary antibody: R014496 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-CDKN2A/p16INK4a Rabbit mAb [62N91M33]

Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

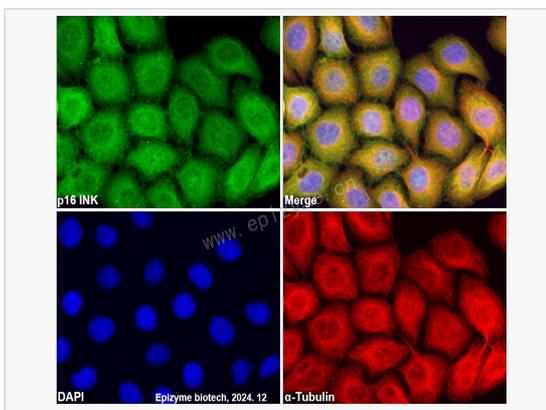
Primary antibody: R014496 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-CDKN2A/p16INK4a Rabbit mAb [62N91M33]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014496 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).