10320 Camino Santa Fe, Suite G
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# CDKN2B Antibody (C-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP14138b**

## Specification

### CDKN2B Antibody (C-term) - Product Information

| | |
|---|---|
| Application | **IF, WB, FC, IHC-P,E** |
| Primary Accession | P42772 |
| Other Accession | NP_004927.2, NP_511042.1 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Antigen Region | **103-131** |

### CDKN2B Antibody (C-term) - Additional Information

**Gene ID** 1030

**Other Names**
Cyclin-dependent kinase 4 inhibitor B, Multiple tumor suppressor 2, MTS-2, p14-INK4b, p15-INK4b, p15INK4B, CDKN2B, MTS2

**Target/Specificity**
This CDKN2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 103-131 amino acids from the C-terminal region of human CDKN2B.

**Dilution**
IF~~1:25
WB~~1:2000
FC~~1:25
IHC-P~~1:250
E~~Use at an assay dependent concentration.

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
CDKN2B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### CDKN2B Antibody (C-term) - Protein Information

**Name** CDKN2B

**Synonyms** MTS2

**Function** Interacts strongly with CDK4 and CDK6. Potent inhibitor. Potential effector of TGF-beta induced cell cycle arrest.

**Cellular Location**
Cytoplasm. Note=Also found in the nucleus

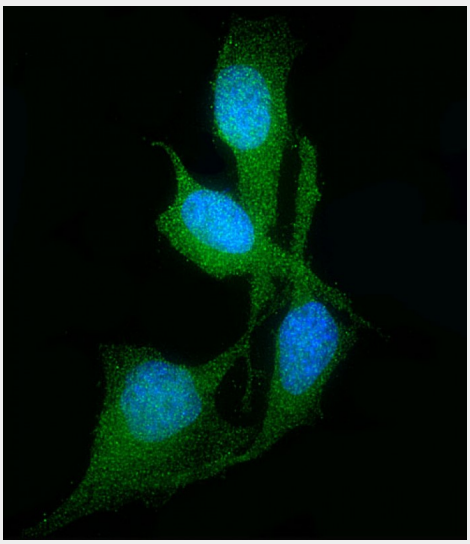
**Tissue Location**
Isoform 2 is expressed in normal (keratinocytes, fibroblasts) and tumor cell lines.

## CDKN2B Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## CDKN2B Antibody (C-term) - Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized Hela cells labeling CDKN2B with AP14138b at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Nucleus and Cytoplasm staining on Hela cell line. The nuclear counter stain is DAPI (blue).

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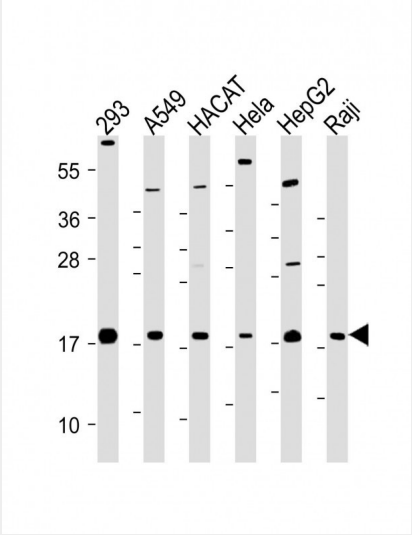
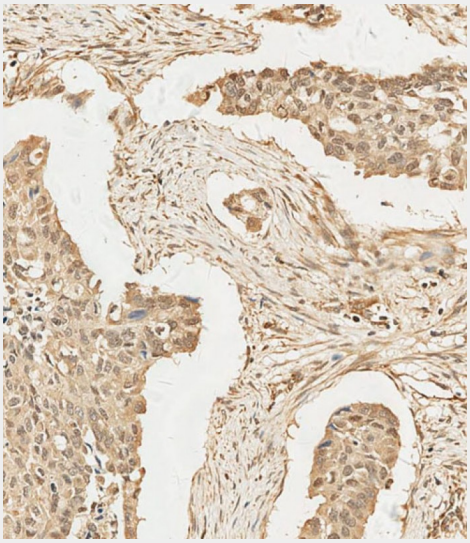



All lanes : Anti-CDKN2B Antibody (C-term) at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: A549 whole cell lysate Lane 3: HACAT whole cell lysate Lane 4: Hela whole cell lysate Lane 5: HepG2 whole cell lysate Lane 6: Raji whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 15 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP14138b staining CDKN2B in human lung adenocarcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Samples were incubated with primary antibody (1/100) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

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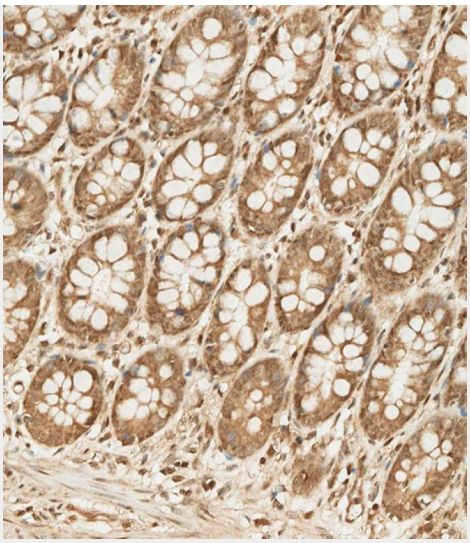
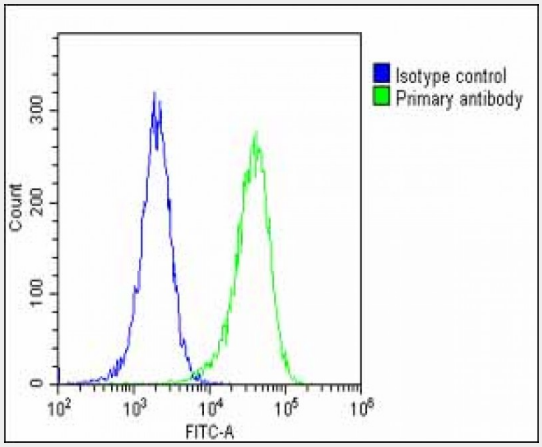


AP14138b staining CDKN2B in human colon tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Samples were incubated with primary antibody (1/250) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.




Overlay histogram showing Hela cells stained with AP14138b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP14138b, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

**CDKN2B Antibody (C-term) - Background**

This gene lies adjacent to the tumor suppressor gene CDKN2A in a region that is frequently mutated and deleted in a wide variety of tumors. This gene encodes a cyclin-dependent kinase inhibitor, which forms a complex with CDK4 or CDK6, and prevents the activation of the CDK kinases, thus the encoded protein functions as a cell growth regulator that controls cell cycle G1 progression. The expression of this gene was found to be dramatically induced by TGF beta, which suggested its role in the TGF beta induced growth inhibition. Two alternatively spliced

transcript variants of this gene, which encode distinct proteins, have been reported.

**CDKN2B Antibody (C-term) - References**

Camacho, C.V., et al. Carcinogenesis 31(10):1889-1896(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Pechlivanis, S., et al. Arterioscler. Thromb. Vasc. Biol. 30(9):1867-1872(2010)
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Roder, C., et al. Childs Nerv Syst (2010) In press :