10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# CDKN2B Antibody (N-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP12629a**

## Specification

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

| | |
|---|---|
| Application | **IF, WB, IHC-P, FC,E** |
| Primary Accession | P42772 |
| Other Accession | NP_004927.2 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Antigen Region | **1-30** |

### CDKN2B Antibody (N-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 1-30 amino acids from the N-terminal region of human CDKN2B.

**Dilution**
IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

**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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### CDKN2B Antibody (N-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

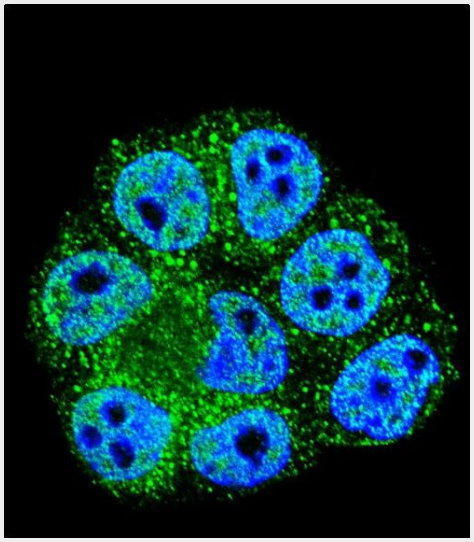
**Tissue Location**
Isoform 2 is expressed in normal (keratinocytes, fibroblasts) and tumor cell lines.

## CDKN2B Antibody (N-term) - Protocols

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

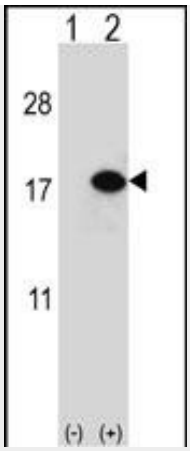
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## CDKN2B Antibody (N-term) - Images

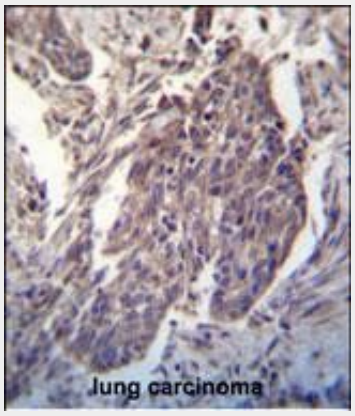


Confocal immunofluorescent analysis of CDKN2B Antibody (N-term)(Cat#AP12629a) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

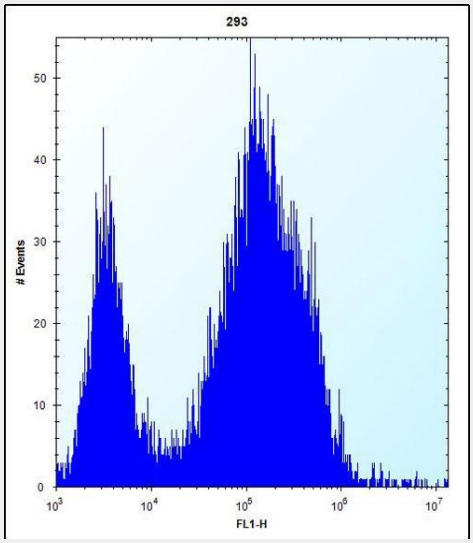
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999




Western blot analysis of CDKN2B (arrow) using rabbit polyclonal CDKN2B Antibody (N-term) (Cat. #AP12629a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CDKN2B gene.




CDKN2B Antibody (N-term) (Cat. #AP12629a)immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CDKN2B Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.




CDKN2B Antibody (N-term) (Cat. #AP12629a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

## CDKN2B Antibody (N-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 (N-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)
Heni, M., et al. Diabetes (2010) In press :
Roder, C., et al. Childs Nerv Syst (2010) In press :