

# CDKN1A/p21CIP1 Rabbit pAb

Catalog No.: A21323 **1 Publications**

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

18kDa

### Category

Primary antibody

### Applications

ELISA,IHC-P,IP

### Cross-Reactivity

Human

## Background

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen, a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lack this gene have the ability to regenerate damaged or missing tissue. Multiple alternatively spliced variants have been found for this gene.

## Recommended Dilutions

WB 1:500 - 1:1000

IHC-P 1:50 - 1:200

IP 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

### Gene ID

1026

### Swiss Prot

P38936

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-164 of human CDKN1A/p21CIP1 (NP\_000380.1).

### Synonyms

P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1; CDKN1A/p21CIP1

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

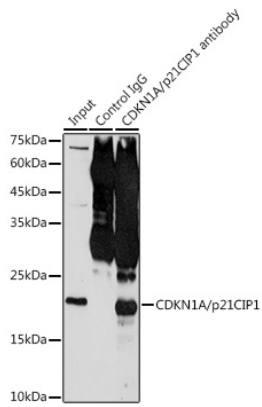
Affinity purification

### Storage

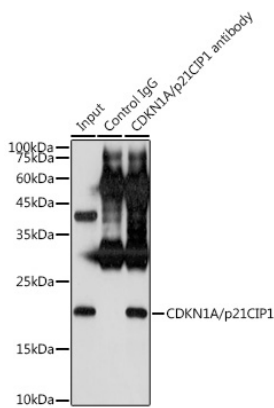
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

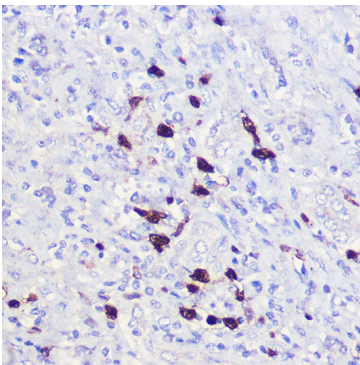
## Validation Data



Immunoprecipitation analysis of 300 µg extracts of MCF7 cells using 3 µg CDKN1A/p21CIP1 antibody (A21323). Western blot was performed from the immunoprecipitate using CDKN1A/p21CIP1 antibody (A21323) at a dilution of 1:500.



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Immunohistochemistry analysis of paraffin-embedded human liver using CDKN1A/p21CIP1 Rabbit pAb (A21323) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.