

## Basic Information

Product Name	Anti-p21/CDKN1A Antibody (Clone#OTI5G1)
Gene Name	CDKN1A
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human
Tested Application	IHC, WB
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Human recombinant protein fragment corresponding to amino acids 2-164 of human CDKN1A(NP_510867) produced in E.coli.
Concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Observed MW	17.9 kDa
Dilution Ratios	Western blot (WB): 1:2000 Immunohistochemistry (IHC):1:150

## Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

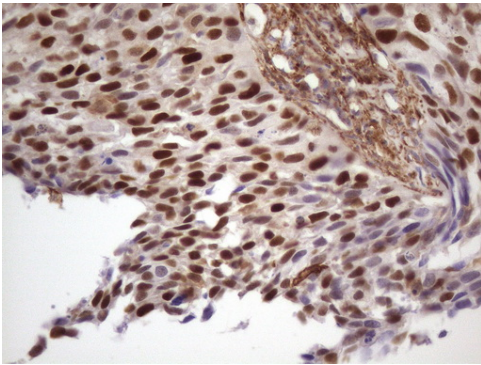
## Background Information

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 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 (PCNA), 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 CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Multiple alternatively spliced variants have been found for this gene. [provided by RefSeq, Nov 2010]

## Reference

Anti-p21/CDKN1A Antibody (Clone#OTI5G1)被引用在2文献中。

## Selected Validation Data



Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-CDKN1A mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, M00145-4) (1:150)

Western blot analysis of extracts (10ug) from 1 cell line by using anti-CDKN1A monoclonal antibody (1:200).

