

## CDKN1A Antibody / p21WAF1 (F54670)

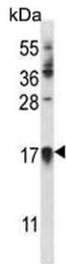
Catalog No.	Formulation	Size
F54670-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54670-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

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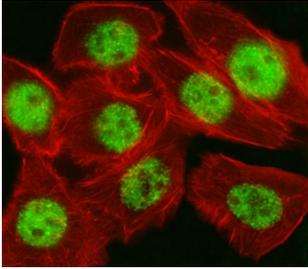
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse
<b>Format</b>	Purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity purified
<b>UniProt</b>	P38936
<b>Localization</b>	Nuclear, cytoplasmic
<b>Applications</b>	Western Blot : 1:500-1:2000 Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:25
<b>Limitations</b>	This CDKN1A antibody is available for research use only.



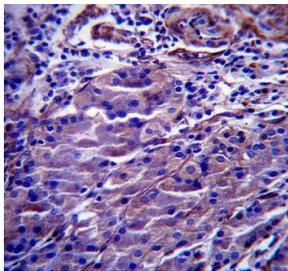
Western blot testing of human Jurkat cell lysate with CDKN1A antibody. Expected molecular weight: 18-21 kDa.



Western blot testing of mouse Neuro-2a cell lysate with CDKN1A antibody. Expected molecular weight: 18-21 kDa.



Immunofluorescent staining of fixed and permeabilized human A549 cells with CDKN1A antibody (green) and anti-Actin (red).



IHC testing of FFPE human breast carcinoma tissue with CDKN1A antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

## Description

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.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the CDKN1A antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 117-146 from the human protein was used as the immunogen for the CDKN1A antibody.

## Storage

Aliquot the CDKN1A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

