

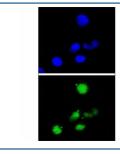
# p21 Antibody (F51647)

Catalog No.	Formulation	Size
F51647-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F51647-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

## **Bulk quote request**

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P38936
Applications	Western Blot : 1:1000 Immunofluorescence : 1:10-1:50
Limitations	This p21 antibody is available for research use only.

55 36 28	Western blot analysis of p21 antibody and HeLa lysate
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Confocal immunofluorescent analysis of p21 antibody with HepG2 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).

#### **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. Two alternatively spliced variants, which encode an identical protein, have been reported.

### **Application Notes**

Titration of the p21 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

### **Immunogen**

A portion of amino acids 105-140 from the human protein was used as the immunogen for this p21 antibody.

#### **Storage**

Aliquot the p21 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.