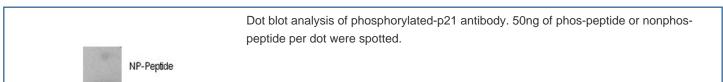


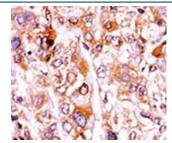
# Phosphorylated-p21 Antibody (pT57) (F48425)

Catalog No.	Formulation	Size
F48425-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48425-0.08ML	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	Dot Blot : 1:500 IHC (Paraffin) : 1:50-1:100
Limitations	This phosphorylated-p21 antibody is available for research use only.





P-Peptide

IHC analysis of FFPE human hepatocarcinoma tissue stained with the phosphorylated-p21 antibody.

### **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 phosphorylated-p21 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

#### **Immunogen**

This phosphorylated-p21 antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pT57 of human P21CIP1.

#### **Storage**

Aliquot the phosphorylated-p21 antibody and store frozen at -200C or colder. Avoid repeated freeze-thaw cycles.