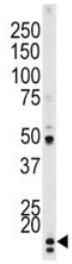
p-p21 Antibody (pT145) (F48424)

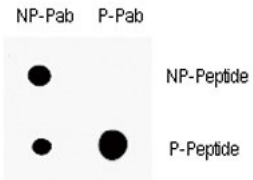
Catalog No.	Formulation	Size
F48424-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48424-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

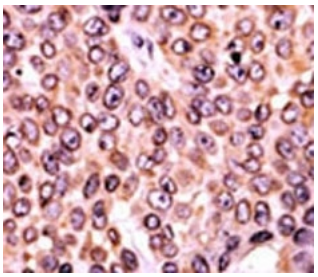
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P38936
Applications	Western Blot : 1:1000 Dot Blot : 1:500 IHC (Paraffin) : 1:50-1:100
Limitations	This p-p21 antibody is available for research use only.



Western blot testing of p-p21 antibody and HeLa lysate.



Dot blot analysis of p-p21 antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.



IHC analysis of FFPE human breast carcinoma tissue stained with the p-p21 antibody.

Description

P21CIP1 is a potent cyclin-dependent kinase inhibitor. This 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. Expression 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. P21CIP1 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 has been 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.

Application Notes

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

Immunogen

This p-p21 antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pT145 of human P21CIP1.

Storage

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