Product Name: p21 (phospho Thr145) Rabbit Polyclonal Antibody
Catalog #: APRab05145

Summary

Production Name	p21 (phospho Thr145) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CDKN1A
Alternative Names	CDKN1A; CAP20; CDKN1; CIP1; MDA6; PIC1; SDI1; WAF1; Cyclin-dependent kinase inhibitor 1; CDK-interacting protein 1; Melanoma differentiation-associated protein 6; MDA-6; p21
Gene ID	1026.0
SwissProt ID	P38936.The antiserum was produced against synthesized peptide derived from human p21 Cip1 around the phosphorylation site of Thr145. AA range:111-160

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000..

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Molecular Weight

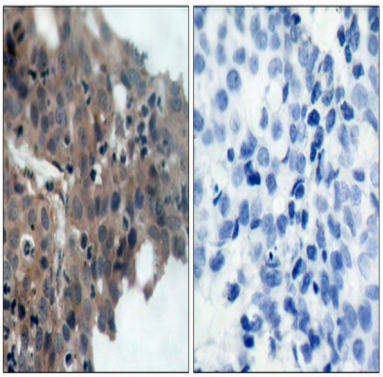
Background

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 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, 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 cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lacfunction:May be the important intermediate by which p53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression.,induction:By p53, mezerein (antileukemic compound) and interferon beta.,PTM:Phosphorylation of Thr-145 by Akt or of Ser-146 by PKC impairs binding to PCNA.,similarity:Belongs to the CDI family.,tissue specificity:Expressed in all adult human tissues, with 5-fold lower levels observed in the brain.,

Research Area

Stem cell pathway; ErbB/HER; PI3K/Akt; AMPK; Cell_Cycle_G1S;Cell_Cycle_G2M_DNA; Protein_Acetylation

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using p21 Cip1 (Phospho-Thr145) Antibody. The picture on the right is blocked with the phospho peptide.

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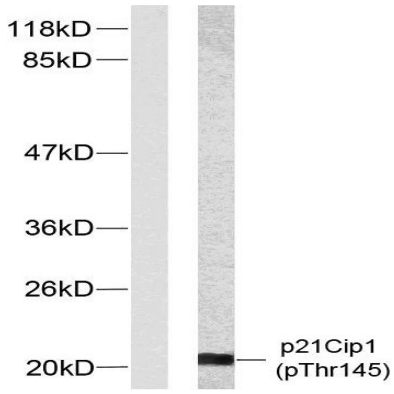
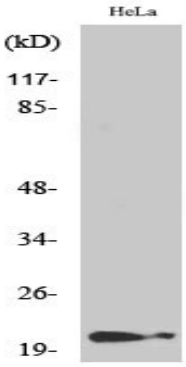


Western blot analysis of lysates from HeLa cells treated with EGF, using p21 Cip1 （Phospho-Thr145） Antibody. The lane on the left is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-p21 （T145） Polyclonal Antibody

Note

For research use only.