

Phospho-p21Cip1(S130) Antibody

Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3187a-400 □

Specification

Phospho-p21Cip1(S130) Antibody - Product info

Application	DB
Primary Accession	P38936
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Clone Names	RB08044
Calculated MW	18119

Phospho-p21Cip1(S130) Antibody - Additional info

Gene ID 1026

Other Names

Cyclin-dependent kinase inhibitor 1, CDK-interacting protein 1, Melanoma differentiation-associated protein 6, MDA-6, p21, CDKN1A, CAP20, CDKN1, CIP1, MDA6, PIC1, SDI1, WAF1

Target/Specificity

This p21Cip1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S130 of human p21Cip1.

Dilution

DB~1:500

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-p21Cip1(S130) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

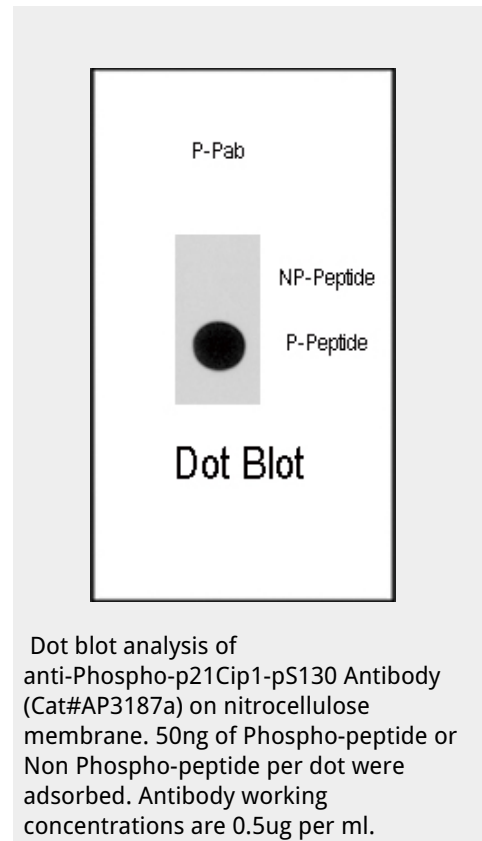
Phospho-p21Cip1(S130) Antibody - Protein Information

Name CDKN1A

Synonyms CAP20, CDKN1, CIP1, MDA6, PIC1, SDI1, WA

Function

May be involved in p53/TP53 mediated inhibition 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. Functions in the nuclear localization and assembly of cyclin D-CDK4 complex and promotes its kinase activity towards RB1. At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex. Inhibits DNA synthesis by DNA polymerase delta by competing with POLD3 for PCNA binding (PubMed:11595739).

Cellular Location

Cytoplasm. Nucleus.

Tissue Location

Expressed in all adult tissues, with 5-fold lower levels observed in the brain

Phospho-p21Cip1(S130) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [□Western Blot](#)
- [□Blocking Peptides](#)
- [□Dot Blot](#)
- [□Immunohistochemistry](#)
- [□Immunofluorescence](#)
- [□Immunoprecipitation](#)
- [□Flow Cytometry](#)
- [□Cell Culture](#)

Phospho-p21Cip1(S130) Antibody - Background

p21 is a potent cyclin-dependent kinase inhibitor. It 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 protein 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. p21 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. It 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.

Phospho-p21Cip1(S130) Antibody - References

Scott, S.A., et al., Leuk. Res. 28(12):1293-1301 (2004). Amini, S., et al., J. Biol. Chem. 279(44):46046-46056 (2004). Chen, T., et al., Cancer Res. 64(20):7412-7419 (2004). Sieburg, M., et al., J. Virol. 78(19):10399-10409 (2004). Giraud, S., et al., Oncogene 23(44):7391-7398 (2004).