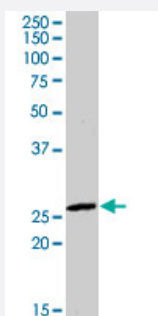


CDKN1A (phospho T145) polyclonal antibody

Catalog # PAB0555

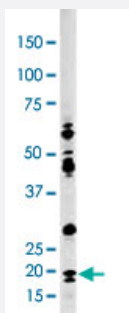
Size 400 uL

Applications



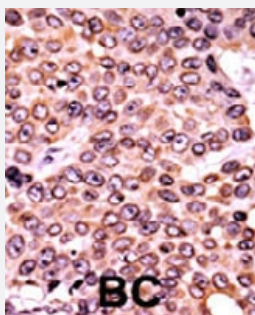
Western Blot (Cell lysate)

CDKN1A (phospho T145) polyclonal antibody (Cat # PAB0555). Western blot analysis of CDKN1A expression in IMR-32.



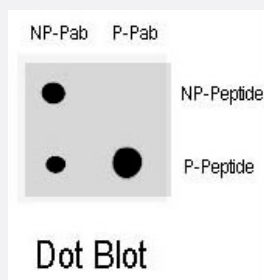
Western Blot (Cell lysate)

The CDKN1A (phospho T145) polyclonal antibody (Cat # PAB0555) is used in Western blot to detect Phospho-CDKN1A-T145 in HeLa cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with CDKN1A (phospho T145) polyclonal antibody (Cat # PAB0555) which was peroxidase-conjugated to the secondary antibody followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.



Dot Blot (Peptide)

Dot blot analysis of CDKN1A (phospho T145) polyclonal antibody (Cat # PAB0555) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CDKN1A.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding T145 of human CDKN1A.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) Dot Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

CDKN1A (phospho T145) polyclonal antibody (Cat # PAB0555). Western blot analysis of CDKN1A expression in IMR-32.

[Protocol Download](#)

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Gene Info — CDKN1A

Entrez GeneID [1026](#)

Protein Accession# [NP_000380:P38936](#)

Gene Name CDKN1A

Gene Alias CAP20, CDKN1, CIP1, MDA-6, P21, SDI1, WAF1, p21CIP1

Gene Description cyclin-dependent kinase inhibitor 1A (p21, Cip1)

Omim ID [116899](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations CDK-interaction protein 1|DNA synthesis inhibitor|OTTHUMP00000016298|cyclin-dependent kinase inhibitor 1A|melanoma differentiation associated protein 6|wild-type p53-activated fragment 1

Publication Reference

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- [Interplay between HIV-1 Vpr and Sp1 modulates p21\(WAF1\) gene expression in human astrocytes.](#)

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Pathway

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- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [ErbB signaling pathway](#)
- [Glioma](#)
- [Melanoma](#)
- [p53 signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Atherosclerosis](#)

- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
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- [Skin Neoplasms](#)
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- [Urinary Bladder Neoplasms](#)
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- [Uterine Neoplasms](#)