

CDKN1A Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20643c-400 □

Specification

CDKN1A Antibody (C-term) - Product info

Application	WB, IF, IHC-P
Primary Accession	P38936
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Clone Names	RB43821
Calculated MW	18119

CDKN1A Antibody (C-term) - 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 CDKN1A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 133-164 amino acids from the C-terminal region of human CDKN1A.

Dilution

IHC-P~~1:25
WB~~1:1000
IF~~1:25

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

CDKN1A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

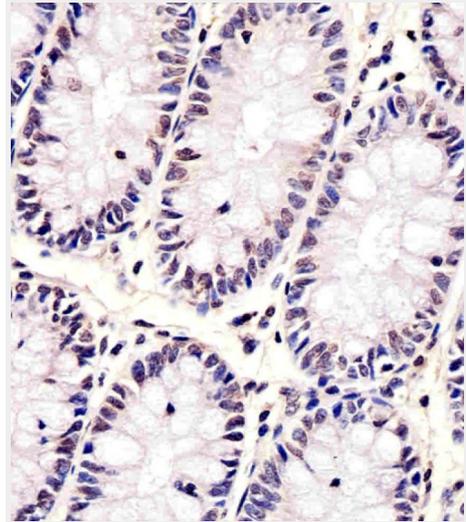
CDKN1A Antibody (C-term) - Protein Information

Name CDKN1A

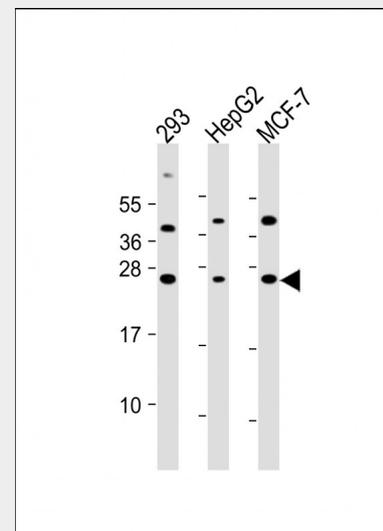
Synonyms CAP20, CDKN1, CIP1, MDA6, PIC1, SDI1, WA

Function

May be involved in p53/TP53 mediated inhibition of cellular proliferation in response to DNA damage. Binds to and inhibits



AP20643C staining CDKN1A in human colon tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



All lanes : Anti-CDKN1A Antibody (C-term) at 1:2000 dilution Lane 1: 293

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

CDKN1A Antibody (C-term) - 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](#)

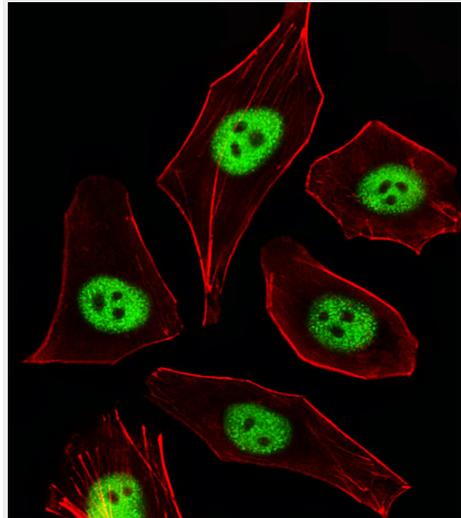
CDKN1A Antibody (C-term) - Background

May be the important intermediate by which p53/TP53 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. 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.

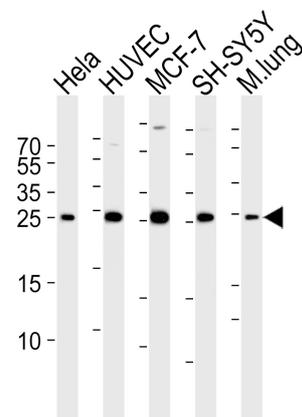
CDKN1A Antibody (C-term) - References

Harper J.W., et al. Cell 75:805-816(1993). El-Deiry W.S., et al. Cell 75:817-825(1993). Xiong Y., et al. Nature 366:701-704(1993). Jiang H., et al. Mol. Cell. Differ. 1:285-299(1993). Jiang H., et al. Oncogene 10:1855-1864(1995).

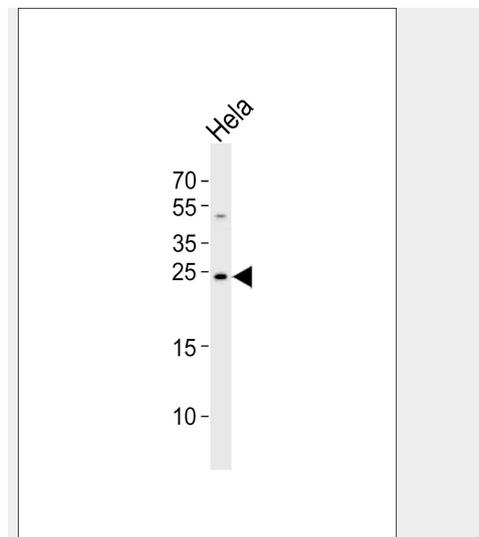
whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 18 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



Fluorescent image of A549 cells stained with CDKN1A Antibody (C-term)(Cat#AP20643c). AP20643c was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red). Cytoplasm



Western blot analysis of lysates from HeLa, HUVEC, MCF-7, SH-SY5Y cell line and mouse lung tissue lysate (from left to right), using CDKN1A Antibody (C-term)(Cat. #AP20643c). AP20643c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35µg per lane.



Western blot analysis of lysate from HeLa cell line, using CDKN1A Antibody (C-term)(Cat. #AP20797c). AP20797c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35ug.