



p21/WAF1 Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AD80417

Specification

p21/WAF1 Antibody - Product info

Application IHC
Primary Accession P38936
Reactivity Human
Host Mouse
Clonality Monoclonal
Calculated MW 18119

p21/WAF1 Antibody - Additional info

Gene ID 1026
Gene Name CDKN1A

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

Dilution

IHC~~Ready-to-use

Storage

Maintain refrigerated at 2-8°C

Precautions p21/WAF1 Antibody is for research use

only and not for use in diagnostic or

therapeutic procedures.

p21/WAF1 Antibody - Protein Information

Name CDKN1A (HGNC:1784)

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

WA

Function May be in

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



Cellular Location
Tissue Location

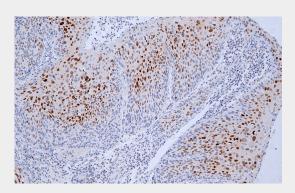
activity of the cyclin D-CDK4 complex. Inhibits DNA synthesis by DNA polymerase delta by competing with POLD3 for PCNA binding (PubMed:11595739).
Cytoplasm. Nucleus.
Expressed in all adult tissues, with 5-fold lower levels observed in the brain

p21/WAF1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

p21/WAF1 Antibody - Images



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma tissue using AD80417 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6. 0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room temperature. AmpSeeTM Detection Systems Abcepta: AR005 was used as the secondary antibody.