

p21/WAF1 Antibody

Mouse Monoclonal Antibody (Mab) Catalog # AD80417

Product Information

Application IHC
Primary Accession P38936
Reactivity Human
Host Mouse
Clonality Monoclonal
Clone Names 745E1B3
Calculated MW 18119

Additional Information

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.

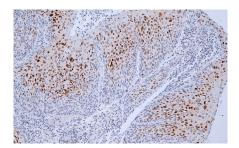
Protein Information

Name CDKN1A (HGNC:1784)

Function Plays an important role in controlling cell cycle progression and DNA

damage-induced G2 arrest (PubMed:9106657). Involved in p53/TP53 mediated inhibition of cellular proliferation in response to DNA damage. Also involved in p53-independent DNA damage-induced G2 arrest mediated by CREB3L1 in astrocytes and osteoblasts (By similarity). 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). Negatively regulates the CDK4- and CDK6-driven phosphorylation of RB1 in keratinocytes, thereby resulting in the release of E2F1 and subsequent transcription of E2F1-driven G1/S phase promoting genes (By similarity).

Images



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma tissue using AD80417 performed on the Abcarta® FAIP-48 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: ADR005) was used as the secondary antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.