

p21

Rabbit Monoclonal antibody(Mab)
Catalog # AD80498

Product Information

Application IHC-P
Primary Accession P38936
Reactivity Human
Host Rabbit
Clonality Monoclonal
Clone Names 689B1C2
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 (HGNC:1784)

Dilution IHC-P~~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

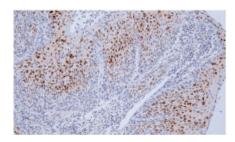
damage-induced G2 arrest (PubMed:9106657). Involved in p53/TP53 mediated inhibition of cellular proliferation in response to DNA damage. Also involved in p53-independent DNA damage-induced G2 arrest mediated by CREB3L1 in astrocytes and osteoblasts (By similarity). Binds to and inhibits cyclin-dependent 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).

Cellular Location Cytoplasm. Nucleus

Images



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