

p21 Rabbit mAb

Catalog # AP76933

Specification

p21 Rabbit mAb - Product Information

Application Primary Accession

Reactivity Host Clonality Isotype Conjugate

Immunogen

Purification Calculated MW WB, IF, ICC P38936

Rat, Human, Mouse

Rabbit

Monoclonal Antibody

IgG

Unconjugated

A synthesized peptide derived from human

p21

Affinity Chromatography

Calculated MW: 18 kDa; Observed MW: 21

kDa KDa

p21 Rabbit mAb - Additional Information

Gene ID 1026

Other Names CDKN1A

Dilution

WB~~1:1000 IF~~1:50~200 ICC~~N/A

Format

Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

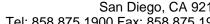
p21 Rabbit mAb - Protein Information

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

Tissue Location

Expressed in all adult tissues, with 5-fold lower levels observed in the brain

p21 Rabbit mAb - Protocols

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

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

p21 Rabbit mAb - Images