

# p21 Rabbit mAb

Catalog # AP75848

## Product Information

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Application	WB
Primary Accession	<a href="#">P38936</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	18119

## Additional Information

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Gene ID	1026
Other Names	CDKN1A
Dilution	WB~~1/500-1/1000
Format	Liquid

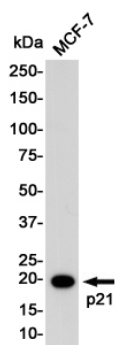
## Protein Information

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Name	CDKN1A ( <a href="#">HGNC:1784</a> )
Function	<p>Plays an important role in controlling cell cycle progression and DNA damage-induced G2 arrest (PubMed:<a href="#">9106657</a>). 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:<a href="#">11595739</a>). 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).</p>
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Expressed in all adult tissues, with 5-fold lower levels observed in the brain

## Images

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