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Mouse p21Cip1 Antibody (C-term S148)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20419b

Product Information

Application	WB, E
Primary Accession	P39689
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB43031
Calculated MW	17785
Antigen Region	126-154

Additional Information

Gene ID	12575
Other Names	Cyclin-dependent kinase inhibitor 1, CDK-interacting protein 1, Melanoma differentiation-associated protein, p21, Cdkn1a, Cip1, Waf1
Target/Specificity	This Mouse p21Cip1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 126-154 amino acids from the C-terminal region of mouse p21Cip1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse p21Cip1 Antibody (C-term S148) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Cdkn1a
Synonyms	Cip1, Waf1
Function	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 activity of the cyclin D- CDK4 complex (PubMed:25329316). Inhibits DNA synthesis by DNA polymerase delta by competing with POLD3 for PCNA binding (By similarity). Plays an important role in controlling cell cycle progression and DNA damage-induced G2 arrest (By similarity).

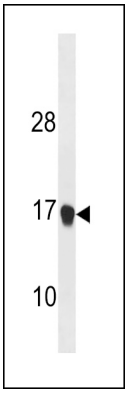
Cellular Location Cytoplasm. Nucleus

Tissue Location Expressed in keratinocytes (at protein level).

Background

May be the important intermediate by which p53/TP53 mediates its role as an inhibitor 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 activity of the cyclin D-CDK4 complex (By similarity).

Images



Mouse p21Cip1 Antibody (C-term S148) (Cat. #AP20419b) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the Mouse p21Cip1 antibody detected the Mouse p21Cip1 protein (arrow).

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