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Mouse p21Cip1 Antibody (C-term S148)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20419b

Specification

Mouse p21Cip1 Antibody (C-term S148) - Product Information

Application	**WB,E**
Primary Accession	P39689
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**17785**
Antigen Region	**126-154**

Mouse p21Cip1 Antibody (C-term S148) - 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.

Mouse p21Cip1 Antibody (C-term S148) - 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

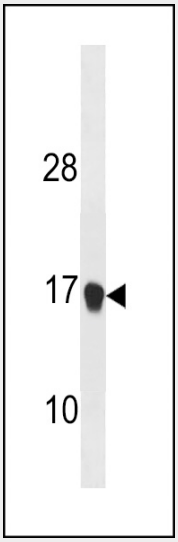
Tissue Location
Expressed in keratinocytes (at protein level).

Mouse p21Cip1 Antibody (C-term S148) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse p21Cip1 Antibody (C-term S148) - 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).

Mouse p21Cip1 Antibody (C-term S148) - 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).