

**Mouse p21Cip1 Antibody (C-term S148)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20419b**

**Specification**

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

Application	WB,E
Primary Accession	<a href="#">P39689</a>
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

**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**

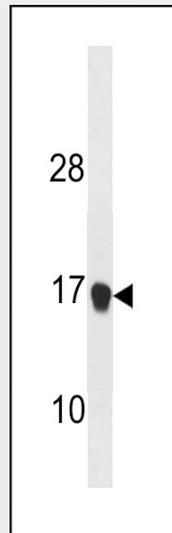
Cytoplasm {ECO:0000250|UniProtKB:P38936}. Nucleus

#### **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 Cytometry](#)
- [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).