p21WAF1 (Tumor Suppressor Protein) Antibody
Mouse Monoclonal Antibody [Clone DCS-60.2 ]
Catalog # AH10989

Specification

p21WAF1 (Tumor Suppressor Protein)
Antibody - Product Information

| Application | 1,2,3,4, |
| Primary Accession | P38936 |
| Other Accession | 1026, 370771 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | Mouse / IgG2a, kappa |
| Clone Names | DCS-60.2 |
| Calculated MW | 21kDa |

p21WAF1 (Tumor Suppressor Protein)
Antibody - Additional Information

Gene ID 1026

Other Names
Cyclin-dependent kinase inhibitor 1, CDK-interacting protein 1, Melanoma differentiation-associated protein 6, MDA-6, p21, CDKN1A, CAP20, CDKN1, CIP1, MDA6, PIC1, SDI1, WAF1

Storage
Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions
p21WAF1 (Tumor Suppressor Protein) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

p21WAF1 (Tumor Suppressor Protein)
Antibody - Protein Information

Name CDKN1A

Synonyms CAP20, CDKN1, CIP1, MDA6, PIC1, SDI1, WA

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.

p21WAF1 (Tumor Suppressor Protein)
Antibody - Background

This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This MAb is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors. p21WAF1 is a specific inhibitor of cdks and a tumor suppressor involved in the pathogenesis of a variety of malignancies. The expression of this gene acts as an inhibitor of the cell cycle during G1 phase and is tightly controlled by the tumor suppressor protein p53. Its expression is induced by the wild type, but not mutant, p53 suppressor protein. Normal cells generally display a rather intense nuclear p21 expression. Loss of p21 expression has been reported in many carcinomas (gastric carcinoma, non-small cell lung carcinoma, thyroid carcinoma).

p21WAF1 (Tumor Suppressor Protein)
Antibody - References

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: PubMed: http://www.uniprot.org/citations/11595739 target="_blank">11595739</a>).

**Cellular Location**
Cytoplasm. Nucleus.

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

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**p21WAF1 (Tumor Suppressor Protein) Antibody - 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](#)