

Mouse Anti-Human p21/WAF1 Monoclonal Antibody

Cat. No. CAB-2544MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Mouse
Antigen Description	p21WAF1 is a tumor suppressor gene product critical to maintain proper regulatory control of cell division. p21WAF1 inhibits cyclin/cyclin-dependent kinase (cdk) complexes, causing cell cycle arrest by blocking cell division at the S phase. Various mutations of tumor suppressor genes have been associated with different types of cancers. In these cases, somatic gene therapy with wild-type versions of tumor suppressor genes have been contemplated as anti-cancer therapeutic approaches. p21WAF1 contains p53-binding sites in its promoter and expression of p21WAF1 is induced in WI38 fibroblasts with PMA.
Immunogen	This protein A purified monoclonal antibody was produced by repeated immunizations with recombinant human p21 fusion protein.
Clone Number	MARL067.
Reactivity	Human.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2.

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Preservative	0.01% (w/v) Sodium Azide.
Concentration	1.0 mg/mL (by UV absorbance at 280 nm).
Application	ELISA: 1:5,000 - 1:20,000; WB: 1:2000 - 1:10000; IP: 1:100; Other: User Optimized.
Storage	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use.

GENE INFORMATION

Gene Name	WAF1 cyclin-dependent kinase inhibitor [<i>Canis lupus familiaris</i>]
Official Symbol	WAF1
Synonyms	cyclin-dependent kinase inhibitor 1A (p21, Cip1); MDA-6; CIP1; CDK-interaction protein 1; wild-type p53-activated fragment 1; SDI1; cyclin-dependent kinase inhibitor 1; CAP20; melanoma differentiation associated protein 6; CDKN1; OTTHUMP00000016298; P21; DNA synthesis inhibitor; p21Cip1/Waf1; MDA6; p21CIP1; p21; Melanoma differentiation-associated protein 6; PIC1; CDK-interacting protein 1
Gene ID	403706
mRNA Refseq	AF076469
Protein Refseq	AAC27627
MIM	116899

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UniProt ID	P38936
Chromosome Location	6p21
Function	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

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