

## Mouse Anti-Human p21/WAF1 Monoclonal Antibody

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

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Antigen Description</b> | <p>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.</p> |
| <b>Immunogen</b>           | This protein A purified monoclonal antibody was produced by repeated immunizations with recombinant human p21 fusion protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Clone Number</b>        | MARL067.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Reactivity</b>          | Human.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Physical State</b>      | Liquid (sterile filtered)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Buffer</b>              | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Preservative</b>  | 0.01% (w/v) Sodium Azide.                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b> | 1.0 mg/mL (by UV absorbance at 280 nm).                                                                                                                                                                                                                                                                                                    |
| <b>Application</b>   | ELISA: 1:5,000 - 1:20,000; WB: 1:2000 - 1:10000; IP: 1:100; Other: User Optimized.                                                                                                                                                                                                                                                         |
| <b>Storage</b>       | 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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | WAF1 cyclin-dependent kinase inhibitor [ <i>Canis lupus familiaris</i> ]                                                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | WAF1                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 403706                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | AF076469                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | AAC27627                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>             | 116899                                                                                                                                                                                                                                                                                                                                                                                                   |

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| <b>UniProt ID</b>          | P38936                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 6p21                                                                                                                                                                                                           |
| <b>Function</b>            | 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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