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Product datasheet for TA389175

CDKN1A Mouse Antibody [Clone ID: M513]

Product data:

| Product Type: | Primary Antibodies |
|-------------------------|--|
| Clone Name: | M513 |
| Applications: | ICC, IHC, IP, WB |
| Recommended Dilution: | WB : 1:500 ICC : 1:50 |
| Reactivity: | Human |
| Host: | Mouse |
| lsotype: | lgG2a |
| Immunogen: | Clone M513 was generated from a full length recombinant human p21 protein. The antibody detects human p21. |
| Specificity: | The antibody detects a 21 kDa* protein corresponding to the apparent molecular mass of p21 on SDS-PAGE immunoblots of human endothelial cells (HUVEC), HeLa cells, and Fibroblasts. The antibody is also useful for immunoprecipitation and immunofluorescent labeling in human cells. |
| Formulation: | PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol |
| Concentration: | lot specific |
| Purification: | Antigen Affinity Purified |
| Conjugation: | Unconjugated |
| Storage: | Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. |
| Stability: | After date of receipt, stable for at least 1 year at -20°C. |
| Predicted Protein Size: | 21 |
| Database Link: | <u>P38936</u> |



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| | CDKN1A Mouse Antibody [Clone ID: M513] – TA389175 |
|-------------|--|
| Background: | The tumor suppressor protein p21/CIP1/WAF1 acts as an inhibitor of cell cycle progression. I functions in stoichiometric relationships forming heterotrimeric complexes with cyclins and cyclin-dependent kinases. In association with CDK2 complexes, it serves to inhibit kinase activity and block progression through G1/S. However, p21 may also enhance assembly and activity in complexes of CDK4 or CDK6 and cyclin D. The carboxy-terminal region of p21 is sufficient to bind and inhibit PCNA, a subunit of DNA polymerase, and may coordinate DNA replication with cell cycle progression. Upon UV damage or during cell cycle stages when cdc2/cyclin B or CDK2/cyclin A are active, p53 is phosphorylated and upregulates p21 transcription via a p53-responsive element. Protein levels of p21 are downregulated through ubiquitination and proteasomal degradation. |
| Note: | Protein G purified tissue culture supernatant. |

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