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# Product datasheet for TA327053

## p21 (CDKN1A) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | ICC/IF, WB |
| **Recommended Dilution:** | WB 1:500 - 1:2000;IF 1:50 - 1:200 |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Recombinant protein of human CDKN1A |
| **Formulation:** | Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3. |
| **Concentration:** | lot specific |
| **Purification:** | Affinity purification |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Gene Name:** | cyclin-dependent kinase inhibitor 1A |
| **Database Link:** | NP_510867<br>Entrez Gene 12575 MouseEntrez Gene 114851 RatEntrez Gene 1026 Human<br>P38936 |
| **Background:** | The tumor suppressor protein p21 Waf1/Cip1 acts as an inhibitor of cell cycle progression. It 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 is active, p53 is phosphorylated and upregulates p21 transcription via a p53-responsive element. Protein levels of p21 are downregulated through ubiquitination and proteasomal degradation. |

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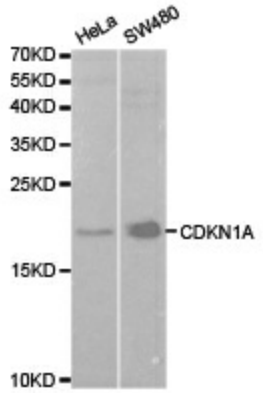
**Synonyms:** CAP20; CDKN1; CIP1; MDA-6; P21; p21CIP1; SDI1; WAF1

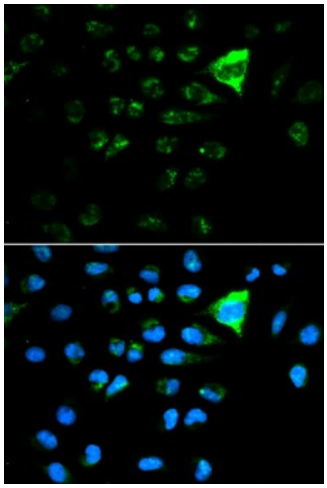
**Protein Families:** Druggable Genome

**Protein Pathways:** Bladder cancer, Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Glioma, Melanoma, p53 signaling pathway, Pathways in cancer, Prostate cancer

## Product images:




Western blot analysis of extracts of various cell lines, using CDKN1A antibody.



Immunofluorescence analysis of MCF7 cell using CDKN1A antibody. Blue: DAPI for nuclear staining.