

## CDKN1A

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:15 - 1:50 IF 1:50 - 1:200

**Calculated MW:**18kDa

**Observed MW:**Refer to figures

**Immunogen:**

Recombinant protein of human CDKN1A

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

b

**Synonym:**

P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1;

**Catalog #:**A2691

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**1026

**Isotype:**IgG

**Swiss Prot:**P38936

**Purity:**Affinity purification

For research use only.

**Background:**

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen (PCNA), a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Multiple alternatively spliced variants have been found for this gene.

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