

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.

To place an order, please [Click HERE](#).