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Phospho-CDKN1A-T145

Reactivity: Human

Tested applications:IHC

Recommended Dilution:IHC 1:50 - 1:100

Calculated MW:21kDa

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding T145 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 #:AP0327

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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