

### Product Information

**Size:**

50ul

**Reactivity:**

Human

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, WB, IHC

**Recommended dilutions:**

ELISA:1:1000-1:5000, WB:1:200-1:1000,  
IHC:1:25-1:100

**Protein 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.

**Gene ID:**

CDKN1A

**Uniprot**

P38936

**Synonyms:**

cyclin-dependent kinase inhibitor 1A (p21, Cip1)

**Immunogen:**

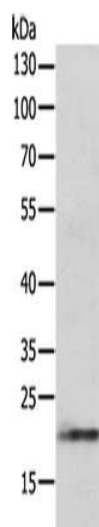
Fusion protein of human CDKN1A.

**Storage:**

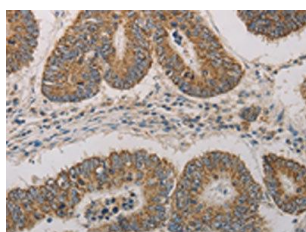
-20&deg; C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

## Product Images

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Gel: 10+12%SDS-PAGE, Lysate: 40  $\mu$ g, Lane: Human liver cancer tissue, Primary antibody: PACO14230(CDKN1A Antibody) at dilution 1/300, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 30 seconds.



The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using PACO14230(CDKN1A Antibody) at dilution 1/20, on the right is treated with fusion protein. (Original magnification: x—200).