

CDKN1A Polyclonal Antibody

Catalog No: tcba7689



Available Sizes

Size: 50ul

Size: 100ul

Size: 200ul



Specifications

Application:

WB,IHC

Research Area:

Cancer,Stem cells,Cell cycle,Apoptosis,p53 pathway,AKT pathway,Cell Biology,PI3K-Akt pathway,Cell Cycle,

Species Reactivity:

Human,Mouse,Rat

Host Species:

Rabbit

Isotype:

IgG

Form:

Liquid

Storage Buffer:

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Recommended Dilution:

WB 1:200 - 1:500

IHC 1:20 - 1:100

Storage Instruction:

Store at -20°C. Avoid freeze / thaw cycles.

Alternative Names:

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

SwissProt:

P38936

Gene ID:

1026 (human);

Calculated Molecular Weight:

18kDa

Purification:

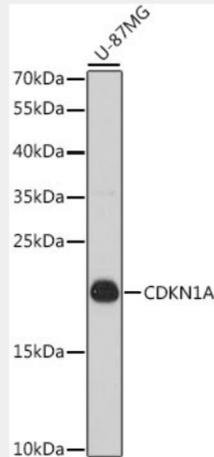
Affinity purification

Cellular Location:

Cytoplasm,Nucleus,

Product Description

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 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, 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 cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lack this gene have the ability to regenerate damaged or missing tissue. Multiple alternatively spliced variants have been found for this gene.



Western blot analysis of extracts of U-87MG cells, using CDKN1A antibody at 1:500 dilution.

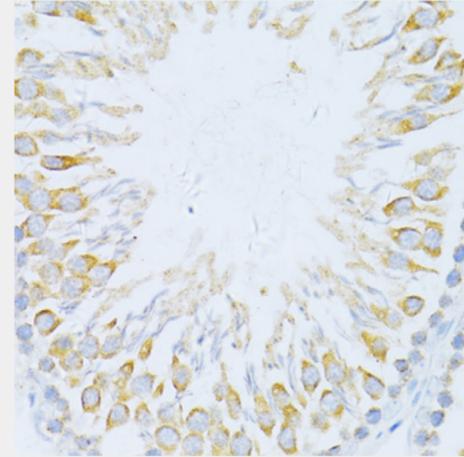
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

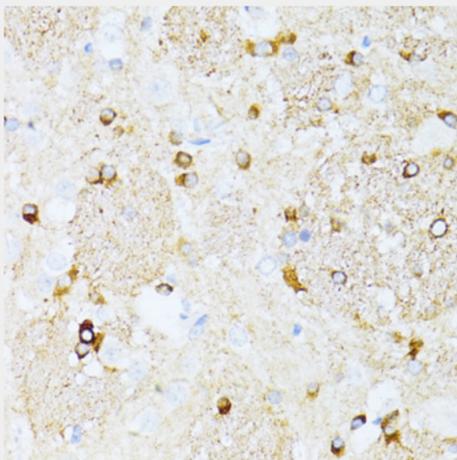
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit.

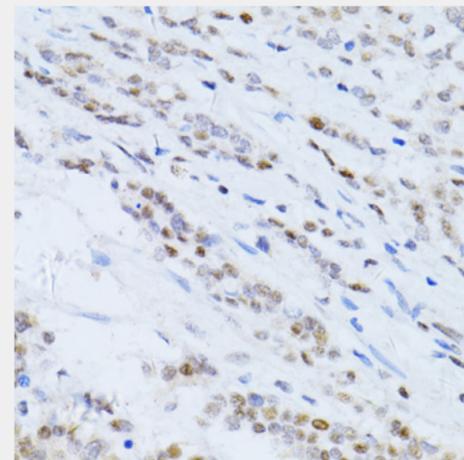
Exposure time: 90s.



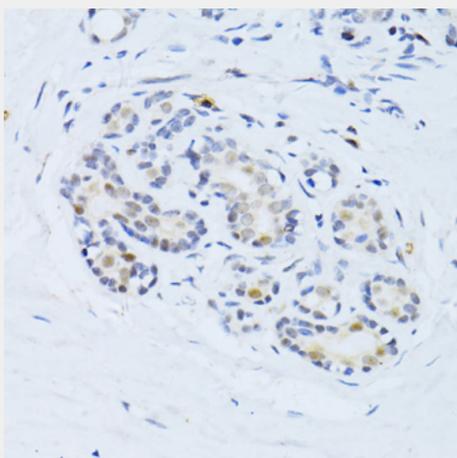
Immunohistochemistry of paraffin-embedded rat testis using CDKN1A antibody at dilution of 1:100 (40x lens).



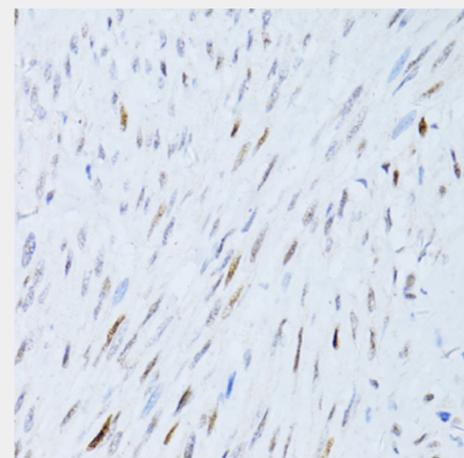
Immunohistochemistry of paraffin-embedded rat brain using CDKN1A antibody at dilution of 1:100 (40x lens).



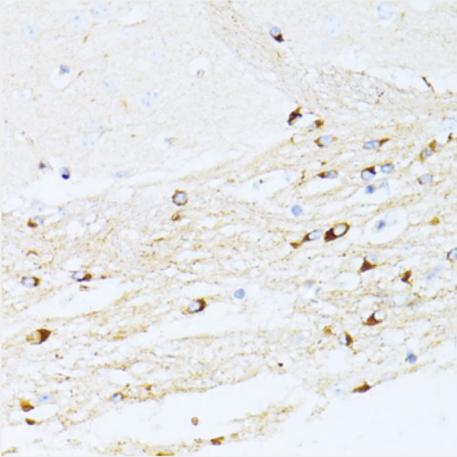
Immunohistochemistry of paraffin-embedded human colon carcinoma using CDKN1A antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human breast using CDKN1A antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human uterine cancer using CDKN1A antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse brain using CDKN1A antibody at dilution of 1:100 (40x lens).

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!