

Rabbit anti-Human CDKN1A/p21CIP1 Polyclonal Antibody | anti-CDKN1A/p21CIP1 antibody

CDKN1A/p21CIP1 Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282286	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, Western Blot

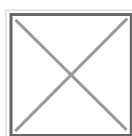
PRODUCT SYNONYMS

CDKN1A/p21CIP1; Polyclonal Antibody; CDKN1A/p21CIP1 Rabbit pAb; CDKN1A; CAP20; CDKN1; CIP1; MDA-6; P21; SDI1; WAF1; p21CIP1; cyclin-dependent kinase inhibitor 1; anti-CDKN1A/p21CIP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Sequence	MADEIAKAQV ARPGGDTIFG KIIRKEIPAK IIFEDDRCLA FHDISPQAPT HFLVIPKKHI SQISVAEDDD ESLLGHLMIIV GKKAADLGL NKG YRMVNE GSDGGQSVYH VHLHVLGGRQ MHWPPG
Applicable Applications for anti-CDKN1A/p21CIP1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-164 of human CDKN1A/p21CIP1 (NP_000380.1).
Cellular Location	Cytoplasm, Nucleus
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



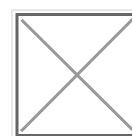
IP (Immunoprecipitation)

Immunoprecipitation analysis of 300ug extracts of MCF7 cells using 3ug CDKN1A/p21CIP1 antibody. Western blot was performed from the immunoprecipitate using CDKN1A/p21CIP1 antibody at a dilution of 1:500.



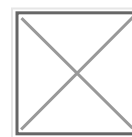
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human liver using CDKN1A/p21CIP1 Rabbit pAb at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



IP (Immunoprecipitation)

Immunoprecipitation analysis of 300ug extracts of MCF7 cells using 3ug CDKN1A/p21CIP1 antibody. Western blot was performed from the immunoprecipitate using CDKN1A/p21CIP1 antibody at a dilution of 1:500.



WB (Western Blot)

Western blot analysis of extracts of MCF7 cells, using CDKN1A/P21cip1 antibody at 1:1000 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: 180s.

ADDITIONAL INFORMATION

Related Product Information for anti-CDKN1A/p21CIP1 antibody	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.
Product Categories/Family for anti-CDKN1A/p21CIP1 antibody	Epigenetics & Nuclear Signaling; DNA Damage & Repair; Cancer; Tumor suppressors; p53 pathway; Signal Transduction; Kinase; PI3K-Akt Signaling Pathway; Cell Biology & Developmental Biology; Apoptosis; Cell Cycle; Cell cycle inhibitors; G1/S Checkpoint; G2/

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885413
NCBI GeneID	3094
NCBI Accession #	NP_005331.1
NCBI GenBank Nucleotide #	NM_005340.6
UniProt Accession #	P49773; Q9H5W8
Molecular Weight	13,802 Da
NCBI Official Full Name	histidine triad nucleotide-binding protein 1
NCBI Official Synonym Full Names	histidine triad nucleotide binding protein 1
NCBI Official Symbol	HINT1
NCBI Official Synonym Symbols	HINT; NMAN; PKCI-1; PRKCNH1
NCBI Protein Information	histidine triad nucleotide-binding protein 1; protein kinase C inhibitor 1; adenosine 5'-monophosphoramidase; protein kinase C-interacting protein 1
UniProt Protein Name	Histidine triad nucleotide-binding protein 1
UniProt Gene Name	HINT1
UniProt Synonym Gene Names	HINT; PKCI1; PRKCNH1; PKCI-1
UniProt Entry Name	HINT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.