

Rabbit anti-Human, Mouse CDKN1A/p21 Monoclonal Antibody | anti-CDKN1A/p21 antibody

[KO Validated] CDKN1A/p21 Rabbit PolymAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282964	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

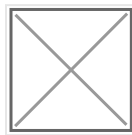
PRODUCT SYNONYMS

CDKN1A/p21; Monoclonal Antibody; [KO Validated] CDKN1A/p21 Rabbit PolymAb; P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1; anti-CDKN1A/p21 antibody

PRODUCT SPECIFICATIONS

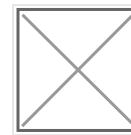
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.
Applicable Applications for anti-CDKN1A/p21 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	Recombinant protein of human/mouse CDKN1A/p21.
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



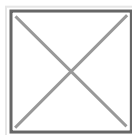
ICC (Immunocytochemistry)

Confocal imaging of NIH/3T3 cells using [KO Validated] CDKN1A/p21 Rabbit PolymAb® (AAA282964, dilution 1:1000)(Red) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



WB (Western Blot)

Western blot analysis of lysates from wild type(WT) and CDKN1A/p21 knockout (KO) 293T cells, using [KO Validated] CDKN1A/p21 Rabbit PolymAb® (AAA282964) at 1:500 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 180s.



WB (Western Blot)

Western blot analysis of various lysates using [KO Validated] CDKN1A/p21 Rabbit PolymAb® (AAA282964) at 1:20000 dilution incubated overnight at 4°.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25 ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 45s.

ADDITIONAL INFORMATION

Related Product Information for anti-CDKN1A/p21 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/p21 antibody	Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	11386203
NCBI GeneID	1026/12575
NCBI Accession #	NP_000380.1
NCBI GenBank Nucleotide #	NM_000389.4
UniProt Accession #	P38936; P39689
Molecular Weight	Calculated MW: 18kDa Observed MW: 21kDa
UniProt Protein Name	Cyclin-dependent kinase inhibitor 1
UniProt Gene Name	CDKN1A
UniProt Synonym Gene Names	CAP20; CDKN1; CIP1; MDA6; PIC1; SDI1; WAF1; MDA-6
UniProt Entry Name	CDN1A_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.