

Rabbit anti-Human p21 (CDKN1A) Polyclonal Antibody | anti-CDKN1A antibody

p21 (CDKN1A) Antibody (C-term)

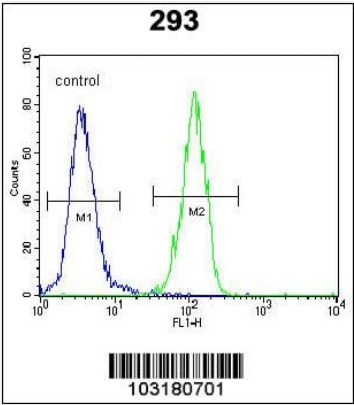
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289189	Rabbit	Human	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

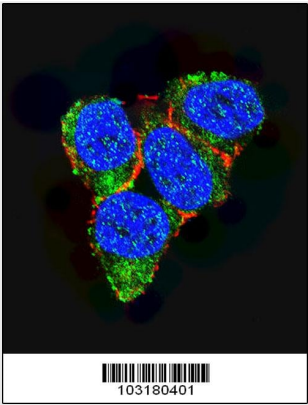
p21 (CDKN1A); Polyclonal Antibody; p21 (CDKN1A) Antibody (C-term); Cyclin-dependent kinase inhibitor 1; CDK-interacting protein 1; Melanoma differentiation-associated protein 6; MDA-6; p21; CDKN1A; CAP20; CDKN1; CIP1; MDA6; PIC1; SDI1; WAF1; anti-CDKN1A antibody

PRODUCT SPECIFICATIONS

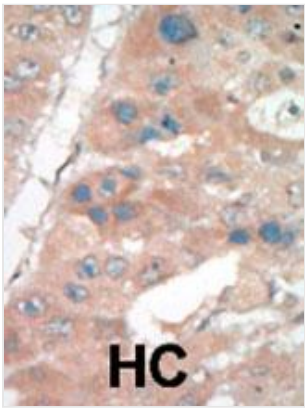
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This p21 (CDKN1A) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 134-164 amino acids from the C-terminal region of human p21 (CDKN1A).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	134-164
Sequence Length	164
Applicable Applications for anti-CDKN1A antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



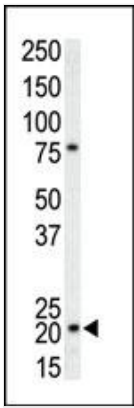
FCM/FACS (Flow Cytometry)
p21 (CDKN1A) Antibody (C-term) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IF (Immunofluorescence)
Confocal immunofluorescent analysis of p21 (CDKN1A) Antibody (C-term) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
The anti-CDKN1A Pab is used in Western blot to detect CDKN1A in T-47D cell lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-CDKN1A antibody	CDKN1A is a potent cyclin-dependent kinase inhibitor. It binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. Expression 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.
Product Categories/Family for anti-CDKN1A antibody	Cancer; Cell biology
References	Fukuchi, K., et al., Biochim. Biophys. Acta 1642(3):163-171 (2003). Frouin, I., et al., J. Biol. Chem. 278(41):39265-39268 (2003). Dupont, J., et al., J. Biol. Chem. 278(39):37256-37264 (2003). Di Padova, M., et al., J. Biol. Chem. 278(38):36496-36504 (2003). Bai, Y.Q., et al., Oncogene 22(39):7942-7949 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	11386203
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NCBI GeneID	1026
NCBI Accession #	NP_000380.1; NP_001207706.1; NP_001207707.1; NP_510867.1
NCBI GenBank Nucleotide #	NM_000389.4
UniProt Accession #	P38936; Q14010; Q6FI05; Q9BUT4
Molecular Weight	18119
NCBI Official Full Name	cyclin-dependent kinase inhibitor 1 isoform 1
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
NCBI Official Symbol	CDKN1A
NCBI Official Synonym Symbols	P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1
NCBI Protein Information	cyclin-dependent kinase inhibitor 1
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/p21-cdkn1a-antibody-immunofluorescence-immunohistochemistry-western-blot-flow-cytometry-elisa/289189>