Datasheet for ABIN7148907

anti-p21 antibody (AA 2-164)

3 Images

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Overview

Quantity:	100 µg
Target:	p21 (CDKN1A)
Binding Specificity:	AA 2-164
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p21 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Cyclin-dependent kinase inhibitor 1 protein (2-164AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	p21 (CDKN1A)
Alternative Name:	CDKN1A (CDKN1A Products)
Background:	Background: May be the important intermediate by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-

Target Details

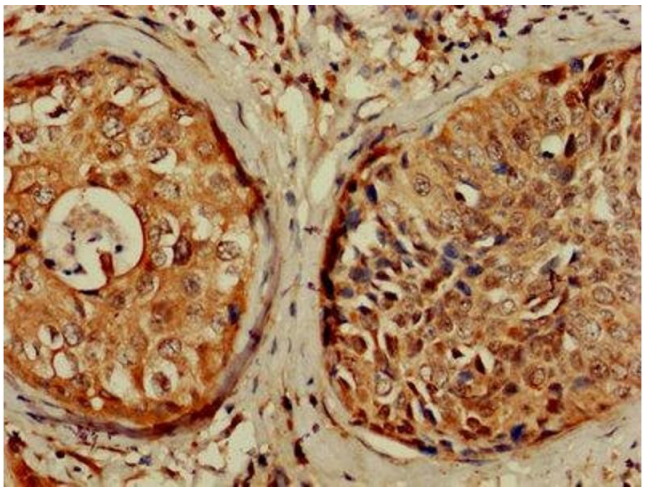
	dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression. Functions in the nuclear localization and assembly of cyclin D-CDK4 complex and promotes its kinase activity towards RB1. At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex. Aliases: CAP20 antibody, CDK-interacting protein 1 antibody, CDKI antibody, CDKN1 antibody, Cdkn1a antibody, CDN1A_HUMAN antibody, CIP1 antibody, Cyclin Dependent Kinase Inhibitor 1A antibody, Cyclin-dependent kinase inhibitor 1 antibody, Cyclin-dependent kinase inhibitor 1A (P21) antibody, Cyclin-dependent kinase inhibitor 1A (p21, Cip1) antibody, DNA Synthesis Inhibitor antibody, MDA-6 antibody, MDA6 antibody, Melanoma differentiation-associated protein 6 antibody, Melanoma differentiation-associated protein antibody, p21 antibody, P21 protein antibody, p21CIP1 antibody, p21Cip1/Waf1 antibody, p21WAF antibody, PIC1 antibody, SDI1 antibody, SLC12A9 antibody, WAF1 antibody, Wild type p53 activated fragment 1 (WAF1) antibody, Wild type p53 activated fragment 1 antibody, Wildtype p53-activated fragment 1 antibody
UniProt:	P38936
Pathways:	p53 Signaling, PI3K-Akt Signaling, Cell Division Cycle, AMPK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Mitotic G1-G1/S Phases, DNA Replication, Hepatitis C, Synthesis of DNA, Autophagy

Application Details

Application Notes:	Recommended dilution: IHC:1:1000-1:2000, IF:1:200-1:500,
Restrictions:	For Research Use only

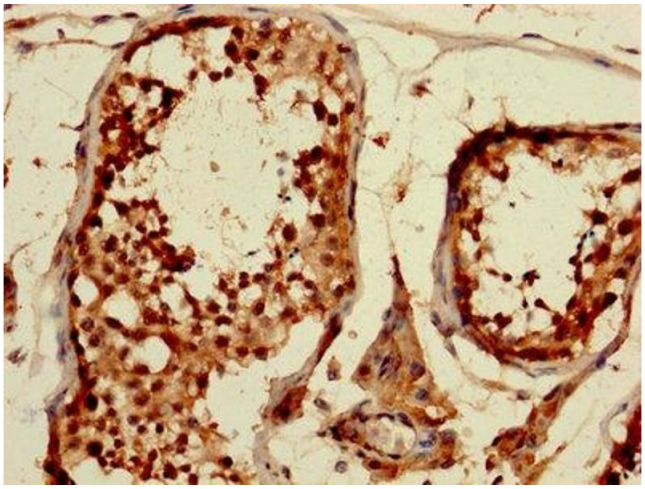
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



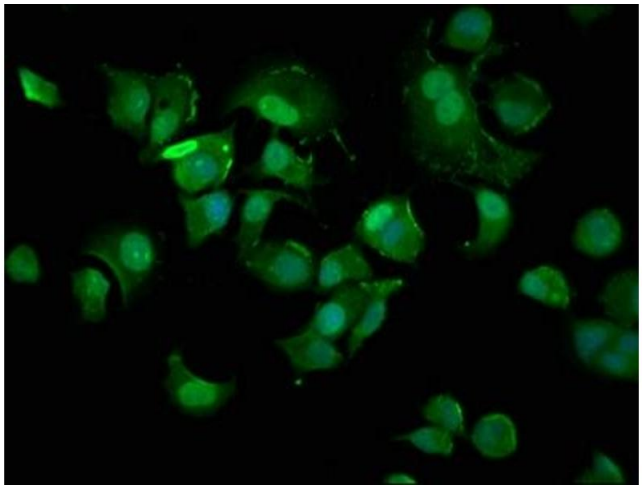
Immunohistochemistry

Image 1. IHC image of ABIN7148907 diluted at 1:1200 and staining in paraffin-embedded human cervical cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunohistochemistry

Image 2. IHC image of ABIN7148907 diluted at 1:1200 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence

Image 3. Immunofluorescence staining of MCF-7 cells with ABIN7148907 at 1:400, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).