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Datasheet for ABIN3022006

anti-p21 antibody (AA 43-142)

7 Images

3 Publications

Overview

Quantity:	100 µL
Target:	p21 (CDKN1A)
Binding Specificity:	AA 43-142
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p21 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 43-142 of human CDKN1A/p21CIP1 (NP_000380.1).
Sequence:	QEARERWNFD FVTETPLEGD FAWERVRGLG LPKLYLPTGP RRRGRDELGGG RRPGTSPALL QGTAEEDHVD LSLSCTLVPR SGEQAEGSPG GPGDSQGRKR
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target: p21 (CDKN1A)

Alternative Name: CDKN1A ([CDKN1A Products](#))

Background: 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.,CAP20,CDKN1,CIP1,MDA-6,P21,SDI1,WAF1,p21CIP1,CDKN1A,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/M DNA Damage Checkpoint,Endocrine & Metabolism,AMPK Signaling Pathway,Immunology & Inflammation,Stem Cells,CDKN1A

Molecular Weight: 21 kDa

Gene ID: 1026

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: WB,1:500 - 1:2000,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

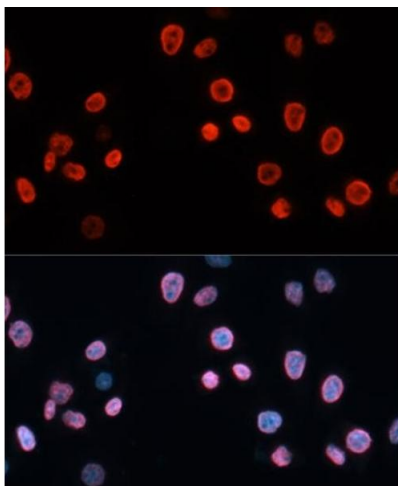
Handling

Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

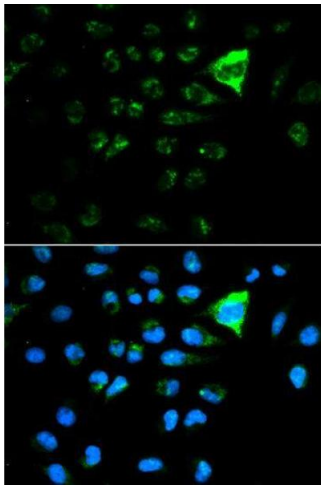
- Product cited in:
- Cheng, Zhu, Han, Zhang, Cui, Shen, Zhang, Yan, Prochownik, Li: "MicroRNA-148a deficiency promotes hepatic lipid metabolism and hepatocarcinogenesis in mice." in: **Cell death & disease**, Vol. 8, Issue 7, pp. e2916, (2018) ([PubMed](#)).
- Li, Xia, Xiong, Wang, Yan: "Effects of sepsis on the metabolism of sphingomyelin and cholesterol in mice with liver dysfunction." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 6, pp. 5635-5640, (2017) ([PubMed](#)).

Images



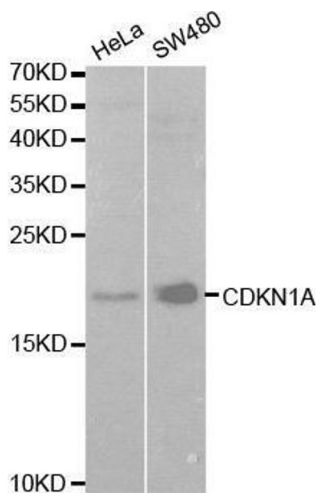
Immunofluorescence

Image 1. Immunofluorescence analysis of HeLa cells using CDKN1A/p21CIP1 antibody (ABIN3022005, ABIN3022006, ABIN3022007 and ABIN6218565) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence

Image 2. Immunofluorescence analysis of MCF7 cell using CDKN1A antibody. Blue: DAPI for nuclear staining.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using CDKN1A antibody.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3022006.