

Allgemeine Informationen

Katalog-Nr.: 10355-1-AP	GenBank-Zugangsnummer: BC000275	Reinigungsmethode: Antigen-Affinitätsreinigung
Größe: 150ul , Konzentration: 900 µg/ml von Nanodrop;	GeneID (NCBI): 1026	Empfohlene Verdünnungen: WB 1:1000-1:4000
Wirt: Kaninchen	Vollständiger Name: cyclin-dependent kinase inhibitor 1A (p21, Cip1)	IP 0.5-4.0 ug für IP und 1:500-1:2000 für WB
Isotyp: IgG	Berechnete Masse: 21 kDa	IHC 1:200-1:600 IF 1:50-1:500
Immunogen Katalognummer: AG0368	Beobachtete Masse: 21 kDa	

Anwendungen

Geprüfte Anwendungen:
FC, IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:
CoIP, FC, IF, IHC, IP, WB

Getestete Reaktivität:
Human

Zitierte Arten:
Hausschwein, Human, Hund

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB: HUVEC-Zellen, HEK-293-Zellen, HeLa-Zellen, HepG2-Zellen, LNCaP-Zellen, MCF-7-Zellen, NCCIT-Zellen, THP-1-Zellen, U2OS-Zellen

IP: MCF-7-Zellen,

IHC: humanes Zervixkarzinomgewebe, humanes Kolonkarzinomgewebe, humanes Magenkrebsgewebe, humanes Mammakarzinomgewebe, humanes Nierengewebe, humanes Schilddrüsenkarzinomgewebe

IF: MCF-7-Zellen, Myotom eines Somiten bei E11.5-Gewebe

Hintergrundinformationen

CDKN1A (p21, CIP1, WAF1) is a cyclin-dependent kinase inhibitor. CDKN1A binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at the G1 phase. The expression of CDKN1A is induced by wild-type but not mutant p53 protein, through which CDKN1A mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. CDKN1A can interact with proliferating cell nuclear antigen (PCNA), and plays a regulatory role in S phase DNA replication and DNA damage repair. CDKN1A 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. Two alternatively spliced variants, which encode an identical protein, have been reported.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Jing Zhao	32986180	Biotechnol Lett	WB
Shengya Tian	31562192	Life Sci Alliance	WB
Wei Zhao	29212181	Oncotarget	WB

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

***** 20ul-Größen enthalten 0.1% BSA**

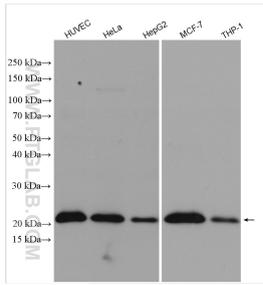
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

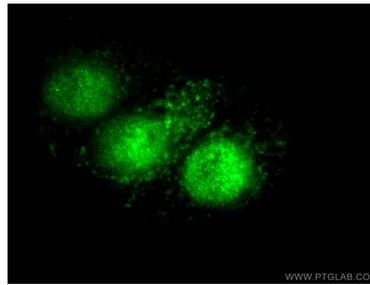
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

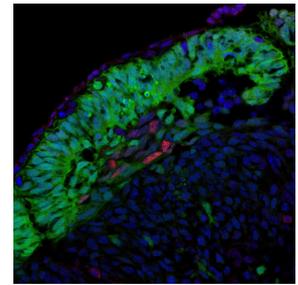
Ausgewählte Validierungsdaten



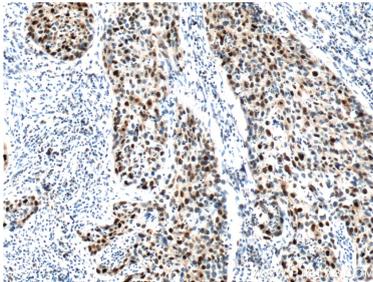
Various lysates were subjected to SDS PAGE followed by western blot with 10355-1-AP (P21 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



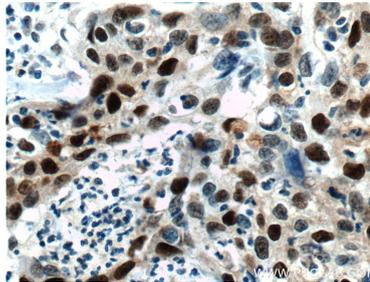
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using 10355-1-AP (P21;CDKN1A antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



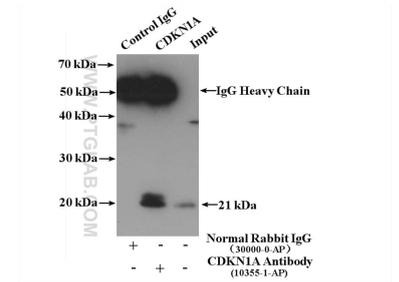
IF result of anti-p21 (CDKN1A, 10355-1-AP) in the myotome of a somite at E11.5 by Dr. Zalc A. and Dr. Relaix F. (Red = p21; Green=Pax3 from a GFP reporter; Blue=DAPI).



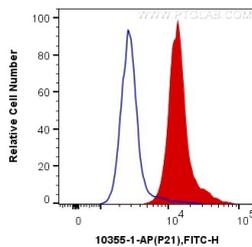
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10355-1-AP (P21;CDKN1A Antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10355-1-AP (P21;CDKN1A Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-P21;CDKN1A (IP:10355-1-AP, 4ug; Detection:10355-1-AP 1:1000) with MCF-7 cells lysate 2800 ug.



1X10⁶ MCF-7 cells were intracellularly stained with 0.2 ug Anti-Human P21 (10355-1-AP) and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).