

Datasheet for ABIN7164738
anti-PCNA antibody (AA 1-261)



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3 Images

Overview

Quantity:	100 µg
Target:	PCNA
Binding Specificity:	AA 1-261
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PCNA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Proliferating cell nuclear antigen protein (1-261AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	PCNA
Alternative Name:	PCNA (PCNA Products)
Background:	Background: Auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase\'s processibility during elongation of

Target Details

the leading strand. Induces a robust stimulatory effect on the 3\'-5\' exonuclease and 3\'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. Has to be loaded onto DNA in order to be able to stimulate APEX2. Plays a key role in DNA damage response (DDR) by being conveniently positioned at the replication fork to coordinate DNA replication with DNA repair and DNA damage tolerance pathways (PubMed:24939902). Acts as a loading platform to recruit DDR proteins that allow completion of DNA replication after DNA damage and promote postreplication repair: Monoubiquitinated PCNA leads to recruitment of translesion (TLS) polymerases, while \'Lys-63\'-linked polyubiquitination of PCNA is involved in error-free pathway and employs recombination mechanisms to synthesize across the lesion. Aliases: ATLD2 antibody, cb16 antibody, Cyclin antibody, DNA polymerase delta auxiliary protein antibody, etID36690.10 antibody, fa28e03 antibody, fb36g03 antibody, HGCN8729 antibody, MGC8367 antibody, Mutagen-sensitive 209 protein antibody, OTTHUMP00000030189 antibody, OTTHUMP00000030190 antibody, PCNA antibody, Pdna/cyclin antibody, PCNA_HUMAN antibody, PCNAR antibody, Polymerase delta accessory protein antibody, Proliferating cell nuclear antigen antibody, wu:fa28e03 antibody, wu:fb36g03 antibody

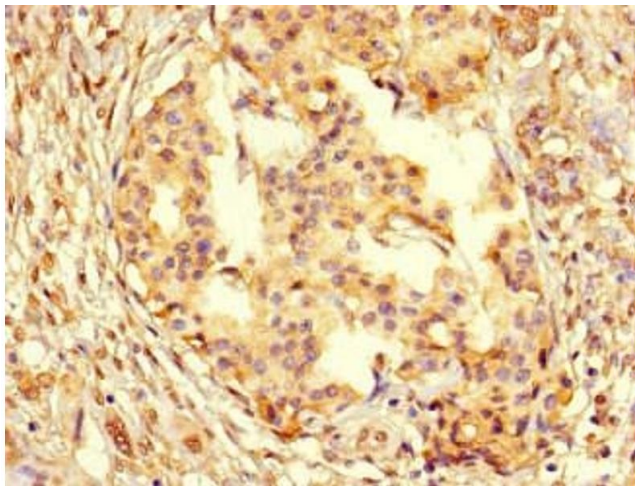
UniProt:	P12004
Pathways:	Telomere Maintenance , DNA Damage Repair , Mitotic G1-G1/S Phases , DNA Replication , Synthesis of DNA , Autophagy

Application Details

Application Notes:	Recommended dilution: WB:1:2000-1:10000, IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only

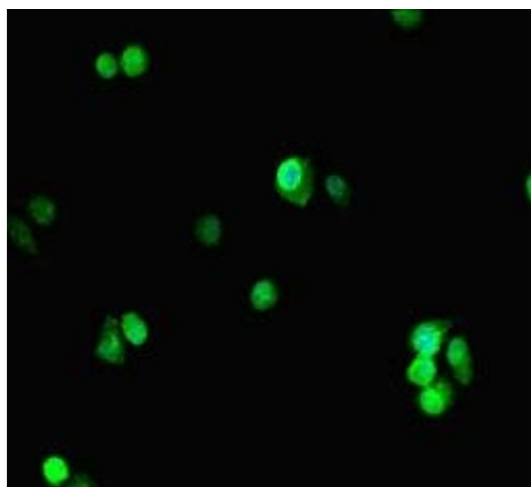
Handling

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.



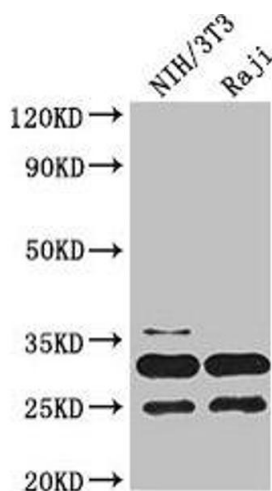
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human pancreatic cancer using ABIN7164738 at dilution of 1:100



Immunofluorescence

Image 2. Immunofluorescent analysis of HepG2 cells using ABIN7164738 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Western Blotting

Image 3. Western Blot Positive WB detected in: NIH/3T3 whole cell lysate, Raji whole cell lysate All lanes: PCNA antibody at 3.2 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 29 kDa Observed band size: 29, 25 kDa