

Datasheet for ABIN672756
anti-PCNA antibody (AA 185-261)

3 Images

10 Publications

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Overview

Quantity:	100 µL
Target:	PCNA
Binding Specificity:	AA 185-261
Reactivity:	Human, Mouse, Rat, Chicken, Rabbit, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PCNA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PCNA
Isotype:	IgG
Cross-Reactivity:	Chicken, Human, Mouse, Rabbit, Rat, Sheep
Predicted Reactivity:	Dog,Cow
Purification:	Purified by Protein A.

Target Details

Target:	PCNA
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Target Details

Alternative Name:	PCNA (PCNA Products)
Background:	<p>Synonyms: ATLD2, Proliferating cell nuclear antigen, PCNA, Cyclin</p> <p>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 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. 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.</p>
Gene ID:	5111
UniProt:	P12004
Pathways:	Telomere Maintenance , DNA Damage Repair , Mitotic G1-G1/S Phases , DNA Replication , Synthesis of DNA , Autophagy

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

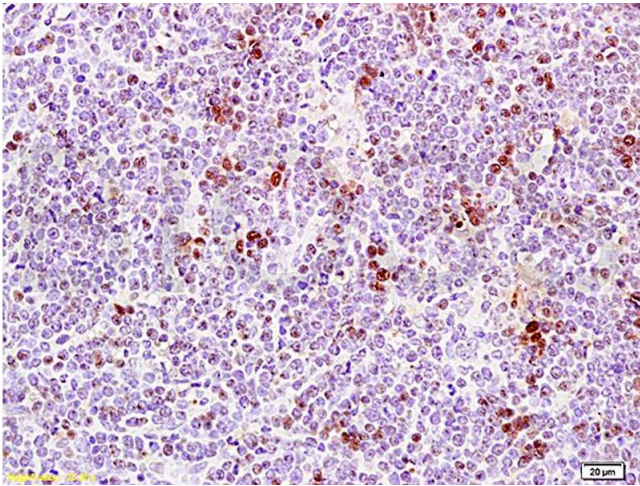
Format:	Liquid
Concentration:	1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	<p>Hu, Zuo, Li, Wang, Peng, Fang, Cui, Gao, Song, Zhou, Chen: "The molecular mechanism of cell cycle arrest in the Bursa of Fabricius in chick exposed to Aflatoxin B 1." in: Scientific reports, Vol. 8, Issue 1, pp. 1770, (2018) (PubMed).</p> <p>He, Bian, Ma, Wang, Wang, Zhao: "Long non-coding RNA SPRY4-IT1 promotes the proliferation and invasion of U251 cells through upregulation of SKA2." in: Oncology letters, Vol. 15, Issue 3, pp. 3977-3984, (2018) (PubMed).</p> <p>Yin, Jiang, Peng, Cui, Zhou, He, Zuo, Ouyang, Fan, Fang: "The molecular mechanism of G2M cell cycle arrest induced by AFB1 in the jejunum." in: Oncotarget, Vol. 7, Issue 24, pp. 35592-35606, (2016) (PubMed).</p> <p>There are more publications referencing this product on: Product page</p>
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Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat thymus tissue labeled Anti-PCNA Polyclonal Antibody, Unconjugated (ABIN672756) at 1:200, followed by conjugation to the secondary antibody and DAB staining

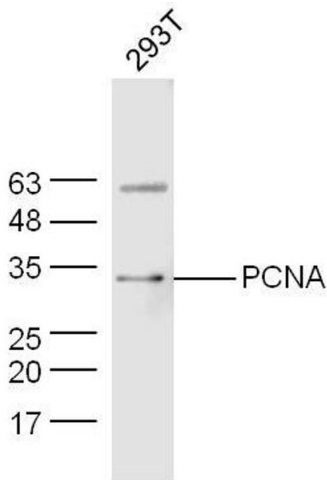


Image 2. 293T lysates probed with PCNA Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.

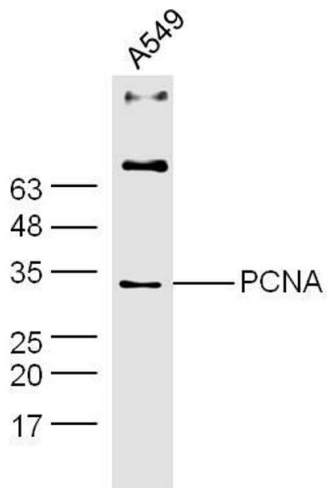


Image 3. A549 lysates probed with PCNA Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.