

Datasheet for ABIN676583  
**anti-PCNA antibody (AA 151-261)**

6 Images

6 Publications

[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	PCNA
Binding Specificity:	AA 151-261
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PCNA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, 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:	Human, Mouse, Rat
Predicted Reactivity:	Cow, Sheep, Pig, Chicken, Rabbit, Guinea Pig
Purification:	Purified by Protein A.

## Target Details

Target:	PCNA
---------	------

## Target Details

Alternative Name:	PCNA ( <a href="#">PCNA Products</a> )
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:	<a href="#">P12004</a>
Pathways:	<a href="#">Telomere Maintenance</a> , <a href="#">DNA Damage Repair</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">DNA Replication</a> , <a href="#">Synthesis of DNA</a> , <a href="#">Autophagy</a>

## Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 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
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

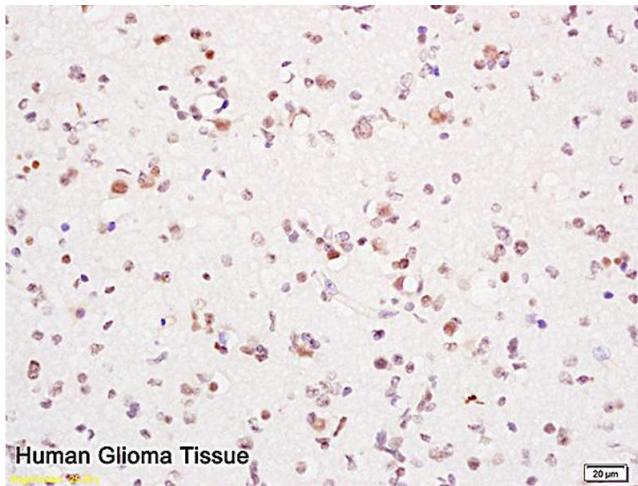
## Handling

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

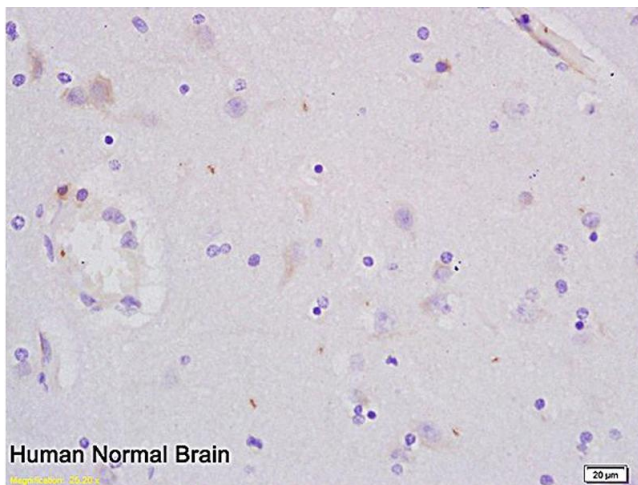
- Product cited in:
- Zhao, Han, Hong, Sun: "Adipose differentiation-related protein knockdown inhibits vascular smooth muscle cell proliferation and migration and attenuates neointima formation." in: **Molecular medicine reports**, Vol. 16, Issue 3, pp. 3079-3086, (2018) ([PubMed](#)).
- Zhou, Zhang, Gao, Tan, Zheng, Zhao, Zhang: "Induced pluripotent stem cell-conditioned medium suppresses pulmonary fibroblast-to-myofibroblast differentiation via the inhibition of TGF- $\beta$ 1/Smad pathway." in: **International journal of molecular medicine**, Vol. 41, Issue 1, pp. 473-484, (2018) ([PubMed](#)).
- Zhao, Feng, Zhang, Kou, Li, Liu, Zhang, Cui, Chu, Shen, Min: "Inhibition of peripubertal sheep mammary gland development by cysteamine through reducing progesterone and growth factor production." in: **Theriogenology**, Vol. 89, pp. 280-288, (2017) ([PubMed](#)).
- Ji, Liu, Zhao, Guo, Xia, Lu, Yin, Xu: "Triptolide inhibits proliferation, differentiation and induces apoptosis of osteoblastic MC3T3-E1 cells." in: **Molecular medicine reports**, Vol. 16, Issue 5, pp. 7391-7397, (2017) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



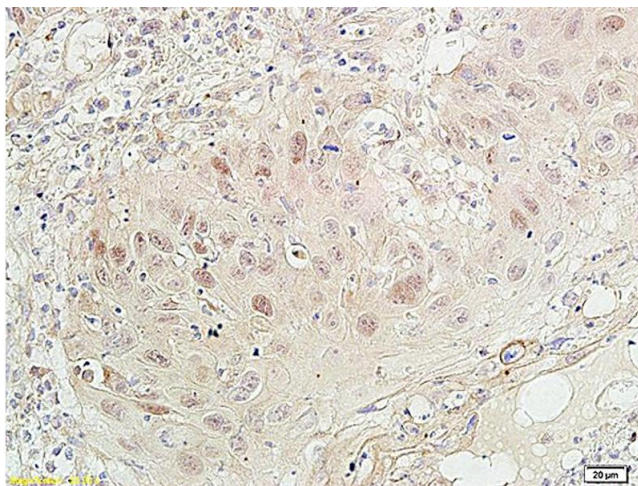
#### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded human brain tissue labeled with Anti-PCNA Polyclonal Antibody, Unconjugated (ABIN676583) at 1:200 followed by conjugation to the secondary antibody and DAB staining



#### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded human glioma tissue labeled with Anti-PCNA Polyclonal Antibody, Unconjugated (ABIN676583) at 1:200 followed by conjugation to the secondary antibody and DAB staining



#### Immunohistochemistry

**Image 3.** Formalin-fixed and paraffin embedded human oral squamous cell carcinoma labeled with Anti-PCNA-Proliferation Marker Polyclonal Antibody, Unconjugated (ABIN676583) at 1:100 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN676583.