

**Anti-PCNA Antibody (aa61-110)**  
**Rabbit Anti Human Polyclonal Antibody**  
**Catalog # ALS18029**

**Specification**

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**Anti-PCNA Antibody (aa61-110) - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">P12004</a>
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	28769

**Anti-PCNA Antibody (aa61-110) - Additional Information**

**Gene ID** 5111

Alias Symbol	PCNA
<b>Other Names</b>	
PCNA, Cyclin	

**Target/Specificity**

PCNA Antibody detects endogenous levels of total PCNA protein.

**Reconstitution & Storage**

Immunoaffinity purified

**Precautions**

Anti-PCNA Antibody (aa61-110) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-PCNA Antibody (aa61-110) - Protein Information**

**Name** PCNA

**Function**

Auxiliary protein of DNA polymerase delta and epsilon, is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand (PubMed:<a href="http://www.uniprot.org/citations/35585232" target="\_blank">35585232</a>). Induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-aprimidinic (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:<a href="http://www.uniprot.org/citations/24939902" target="\_blank">24939902</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/24695737" target="\_blank">24695737</a>).

**Cellular Location**

Nucleus Note=Colocalizes with CREBBP, EP300 and POLD1 to sites of DNA damage (PubMed:24939902). Forms nuclear foci representing sites of ongoing DNA replication and vary in morphology and number during S phase (PubMed:15543136). Co-localizes with SMARCA5/SNF2H and BAZ1B/WSTF at replication foci during S phase (PubMed:15543136). Together with APEX2, is redistributed in discrete nuclear foci in presence of oxidative DNA damaging agents.

**Anti-PCNA Antibody (aa61-110) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-PCNA Antibody (aa61-110) - Images**