

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

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

Application	WB, IHC-P, E
Primary Accession	P12004
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
Other Names	
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:35585232). 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 (PubMed:24695737).

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