

# PCNA

Rabbit Monoclonal antibody(Mab)

Catalog # AD80035

## Product Information

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Application	IHC-P
Primary Accession	<a href="#">P12004</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Clone Names	111B2E9
Calculated MW	28769

## Additional Information

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Gene ID	5111
Gene Name	PCNA
Other Names	Proliferating cell nuclear antigen, PCNA, Cyclin, PCNA
Dilution	IHC-P~~Ready-to-use
Storage	Maintain refrigerated at 2-8°C.
Precautions	PCNA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

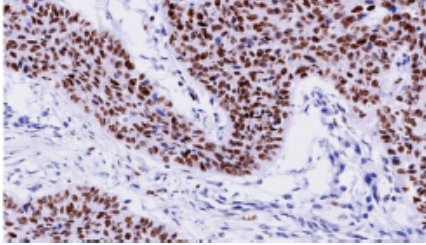
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Name	PCNA
Function	Auxiliary protein of DNA polymerase delta and epsilon, is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand (PubMed: <a href="#">35585232</a> ). 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: <a href="#">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="#">24695737</a> ).
Cellular Location	Nucleus. Note=Colocalizes with CREBBP, EP300 and POLD1 to sites of DNA damage (PubMed: <a href="#">24939902</a> ). 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

## Images

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.