

PCNA

Rabbit Monoclonal antibody(Mab)

Catalog # AD80035

Product Information

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|-------------------|------------------------|
| Application | IHC-P |
| Primary Accession | P12004 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone Names | 111B2E9 |
| Calculated MW | 28769 |

Additional Information

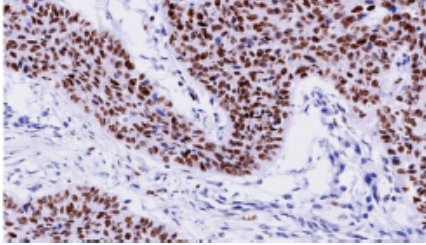
| | |
|-------------|---|
| Gene ID | 5111 |
| Gene Name | PCNA |
| Other Names | Proliferating cell nuclear antigen, PCNA, Cyclin, PCNA |
| Dilution | IHC-P~~Ready-to-use |
| Storage | Maintain refrigerated at 2-8°C. |
| Precautions | PCNA Antibody is for research use only and not for use in diagnostic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

Images



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