# Mouse anti-Human PCNA Monoclonal Antibody | anti-PCNA antibody

PCNA antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA48020** | **Mouse** | **Human** | **Western Blot, ELISA** |

## PRODUCT SYNONYMS

PCNA; Monoclonal Antibody; PCNA antibody; Proliferating cell nuclear antigen; MGC8367; ; anti-PCNA antibody

## PRODUCT SPECIFICATIONS

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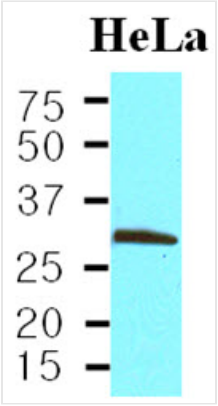
|---|---|
| **Host** | Mouse |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | IgG3, k |
| **Clone Number** | k1A3 |
| **Purity/Purification** | By protein-G affinity chromatography |
| **Form/Format** | Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol. |
| **Concentration** | 1mg/ml (varies by lot) |
| **Sequence Length** | 261 |
| **Applicable Applications for anti-PCNA antibody** | WB (Western Blot), ELISA |
| **Antigen Species** | Human |
| **Immunogen** | Recombinant human PCNA (1-261aa) purified from E. coli |
| **Clone Note** | Anti-human PCNA mAb, clone k1A3, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PCNA protein. |
| **Preparation and Storage** | Can be stored at 4 degree C.<br>For long term storage, aliquot and store at -20 degree C.<br>Avoid repeated freezing and thawing cycles. |

## IMAGES




**WB (Western Blot)**
Cell lysates of HeLa (20ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human PCNA (1:2,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-PCNA antibody** | PCNA (Proliferating Cell Nuclear Antigen) is found in the nucleus and is a cofactor of DNA polymerase delta. This protein is associated with DNA synthesis and repair. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. It appears during late G1- phase, S-phase of mitosis and persists until the end of the M-phase because of its long biological half-life. PCNA may be induced by UV irradiation, growth factors and eventually by neighboring tumors. |
| **Product Categories/Family for anti-PCNA antibody** | Cell Cycle |
| **References** | Moldovan GL, et al., (2007) Cell 18 129 (4):665-679; Matsumoto K, et al., (1987) EMBO 6 (3):637-642 |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 4505641 |
| **NCBI GeneID** | 5111 |
| **NCBI Accession #** | NP_002583 |
| **NCBI GenBank Nucleotide #** | NM_002592.2 |
| **UniProt Accession #** | P12004; B2R897; D3DW02 |
| **Molecular Weight** | 28,769 Da |
| **NCBI Official Full Name** | proliferating cell nuclear antigen |
| **NCBI Official Synonym Full Names** | proliferating cell nuclear antigen |
| **NCBI Official Symbol** | PCNA |
| **NCBI Official Synonym Symbols** | ATLD2 |
| **NCBI Protein Information** | proliferating cell nuclear antigen |
| **UniProt Protein Name** | Proliferating cell nuclear antigen |
| **UniProt Gene Name** | **PCNA** |
| **UniProt Synonym Gene Names** | PCNA |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.