

Recombinant Human PCNA, His-tagged

Cat. No. PCNA-4863H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant full-length human PCNA was expressed by E. coli cells using an N-terminal His tag. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Full Length |
| Description | The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome.? |
| Form | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. |
| Molecular Mass | ~37 kDa |
| Purity | >90% |
| Applications | Western Blot |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|---|
| Stability | 1 yr at -70oC from date of shipment. |
| Storage | Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| Concentration | 0.2 ug/ul |
| GENE INFORMATION | |
| Gene Name | PCNA proliferating cell nuclear antigen [Homo sapiens] |
| Official Symbol | PCNA |
| Synonyms | MGC8367; PCNA;?Proliferating cell nuclear antigen; Cyclin;?proliferating cell nuclear antigen; cyclin; DNA polymerase delta auxiliary protein |
| Gene ID | 5111 |
| mRNA Refseq | NM_002592 |
| Protein Refseq | NP_002583 |
| MIM | 176740 |
| UniProt ID | P12004 |
| Chromosome Location | 20pter-p12 |
| Pathway | BARD1 signaling events; BRCA1-associated genome surveillance complex (BASC); Base excision repair |

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Function

DNA polymerase binding; DNA polymerase processivity factor activity; MutLalpha complex binding

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