

Recombinant Human PCNA, His-tagged

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

SPECIFICATION

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

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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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