

# Recombinant Proliferating Cell Nuclear Antigen, His-tagged

**Cat. No.** PCNA-4489H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	PCNA Human Recombinant produced in Sf9 is a glycosylated, polypeptide chain having a molecular mass of 29,794 Dalton. PCNA is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.
<b>Species</b>	Sf9 Insect Cells
<b>Source</b>	Human
<b>Description</b>	Proliferating cell nuclear antigen (PCNA), a protein of 30 kDa molecular weight also known as cyclin, forms a trimer ring around a DNA double-helix. It binds to a variety of other nuclear proteins and thereby organises biochemical processes at the DNA replication fork. PCNA thereby assumes important functions in DNA synthesis, repair and processing, the regulation of cell cycle and even apoptosis. Anti-PCNA antibodies occur in systemic lupus, where they represent a rare specificity (< 10 % of SLE patients). However, their presence alone or in combination with other autoantibodies should alert the clinician to the presence of defined or evolving SLE.
<b>Form</b>	Recombinant Human PCNA is supplied in 16mM HEPES buffer pH-8, 400mM NaCl, and 20% glycerol.
<b>Purity</b>	Greater than 95% as determined by SDS-PAGE.
<b>Physical Appearance</b>	Sterile Filtered colorless solution.
<b>Pathways</b>	Base excision repair; Cell cycle; DNA replication; Mismatch repair; Nucleotide

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excision repair; Cell Cycle, Mitotic; DNA Repair; DNA Replication; Telomere Maintenance

## GENE INFORMATION

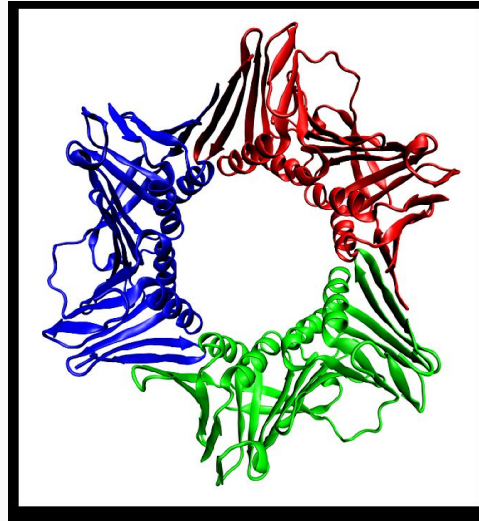
<b>Gene Name</b>	PCNA proliferating cell nuclear antigen [ Homo sapiens ]
<b>Official Symbol</b>	PCNA
<b>Synonyms</b>	MGC8367; PCNA; Proliferating cell nuclear antigen; Cyclin; proliferating cell nuclear antigen; cyclin; DNA polymerase delta auxiliary protein
<b>Gene ID</b>	5111
<b>mRNA Refseq</b>	NM_002592
<b>Protein Refseq</b>	NP_002583
<b>MIM</b>	176740
<b>UniProt ID</b>	P12004
<b>Chromosome Location</b>	20pter-p12
<b>Function</b>	DNA binding; DNA polymerase processivity factor activity; MutLalpha complex binding; dinucleotide insertion or deletion binding; protein binding; purine-specific mismatch base pair DNA N-glycosylase activity

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The assembled  
human DNA clamp, a  
trimer of the protein  
PCNA.



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