

Recombinant Proliferating Cell Nuclear Antigen, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Sf9 Insect Cells
Source	Human
Description	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.
Form	Recombinant Human PCNA is supplied in 16mM HEPES buffer pH-8, 400mM NaCl, and 20% glycerol.
Purity	Greater than 95% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered colorless solution.
Pathways	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

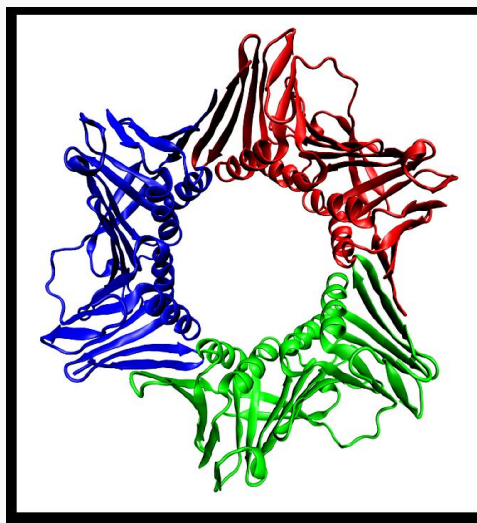
Gene Name	PCNA proliferating cell nuclear antigen [Homo sapiens]
Official Symbol	PCNA
Synonyms	MGC8367; PCNA; Proliferating cell nuclear antigen; Cyclin; proliferating cell nuclear antigen; cyclin; DNA polymerase delta auxiliary protein
Gene ID	5111
mRNA Refseq	NM_002592
Protein Refseq	NP_002583
MIM	176740
UniProt ID	P12004
Chromosome Location	20pter-p12
Function	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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