Recombinant Human Proliferating Cell Nuclear Antigen

Cat. No. PCNA-174H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human proliferating cell nuclear antigen produced in*SF9*is a glycosylated, polypeptide chain. The recombinant human proliferating cell nuclear antigen has a molecular mass of 29,794 Dalton. The recombinant human proliferating cell nuclear antigen is purified by proprietary chromatographic techniques.
Species	Human
Source	Sf9 Cells
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.
Formulation	Recombinant Human PCNA is supplied at a of 1mg/ml in16mM HEPES buffer pH-8, 400mM NaCl, and 20% glycerol.
Immunological Functions	1. Binds IgG-type human auto-antibodies. 2. Standard ELISA test (checker-board analysis of positive/negative sera panels, immuno-dot analysis with validated SLE patient sera.

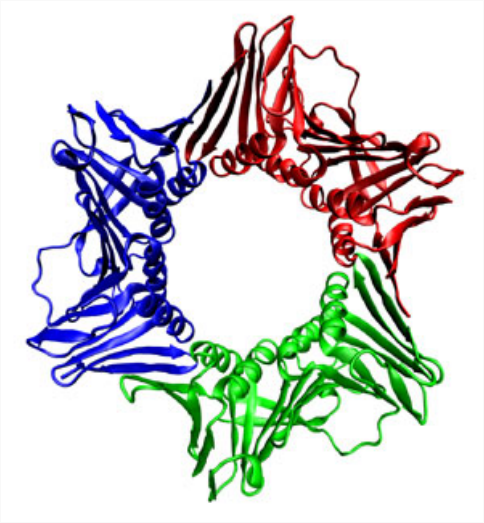
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Purity	Greater than 90% (SDS-PAGE).
Applications	Western-Blot with monoclonal anti-hexa-His-tag antibody & Scleroderma patient sera.
Coating Concentration	0.5-1.1μg/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.
Storage Conditions	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name	PCNA proliferating cell nuclear antigen [Homo sapiens]
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	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
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
The assembled human DNA clamp, a trimer of the protein PCNA.	

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