

Recombinant Proliferating Cell Nuclear Antigen, GST-tagged

Cat. No. PCNA-4488H Lot. No. (See product label)

SPECIFICATION

Product Overview	PCNA full length Human Recombinant protein produced in E.Coli is a single, non-glycosylated polypeptide chain having a molecular mass of 62kDa which includes GST-tag fusion protein.
Species	Human
Source	Human
Description	PCNA is located in the nucleus and is a cofactor of DNA polymerase delta. PCNA acts as a homotrimer and helps elevate the processivity of leading strand synthesis during DNA replication. In reaction to DNA damage, PCNA is ubiquitinated and takes part in the RAD6-dependent DNA repair pathway. 2 transcript variants encoding the same protein have been found for PCNA gene. Pseudogenes of this PCNA gene have been described on chromosome 4 and on the X chromosome. PCNA is expressed during late G1- phase, S-phase of mitosis and persists until the end of the M-phase because of its long biological half-life. PCNA is induced by UV irradiation.
Form	The PCNA solution contains 50mM Tris-Acetate pH-7.5 & 1mM EDTA & 20% glycerol.
Physical Appearance	Sterile Filtered colorless solution.
Storage	PCNA although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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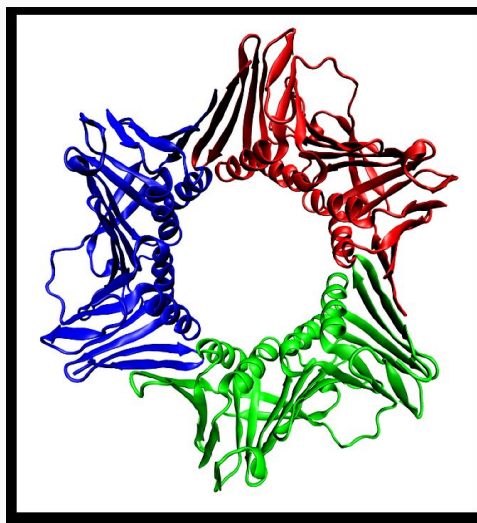
Pathways	Base excision repair; Cell cycle; DNA replication; Mismatch repair; Nucleotide excision repair; Cell Cycle, Mitotic; DNA Repair; DNA Replication; Telomere Maintenance
Full Length	Full L.
GENE INFORMATION	
Gene Name	PCNA proliferating cell nuclear antigen [Homo sapiens]
Official Symbol	PCNA
Synonyms	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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