

## PCNA Human, GST

**Description:** 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.

**Catalog #:** PRPS-748

For research use only.

**Synonyms:** Proliferating cell nuclear antigen, PCNA, Cyclin, MGC8367.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Formulation:**

The PCNA solution contains 50mM Tris-Acetate pH-7.5 & 1mM EDTA & 20% glycerol.

**Stability:**

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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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.

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