

PCNA recombinant protein

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CATALOG # AAA72901	HOST E Coli	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

PCNA; PCNA recombinant protein; MGC8367

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95%
Form/Format	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Concentration	0.2 ug/ul (varies by lot)
Sequence Length	1355
Applicable Applications for PCNA recombinant protein	WB (Western Blot)
Type	Recombinant Fusion Protein
Species	Human
Tag Information	His tag
Expression System	E.coli
Source Note	Recombinant full-length human PCNA was expressed by E. coli cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on Dry Ice. Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

The purity of PCNA was determined to be >95% by densitometry. Approx. MW 37kDa

ADDITIONAL INFORMATION

Related Product Information for PCNA recombinant protein	Recombinant full-length human PCNA was expressed by E. coli cells using an N-terminal His tag.
Product Categories/Family for PCNA recombinant protein	Acetyl/Methyltransferases Proteins ; Signaling Proteins - Acetyl/Methyltransferase Proteins

References	1.Hasan, S. et al: Transcription coactivator p300 binds PCNA and may have a role in DNA repair synthesis. Nature 410: 387-391, 2001. 2.Poot, R. A.et al: The Williams syndrome transcription factor interacts with PCNA to target chromatin remodelling by ISWI to replication foci. Nature Cell Biol. 6: 1236-1244, 2004. Storage, Stability and Shipping: Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Applications: Western Blot Molecular Weight: ~37 kDa Gene Aliases: MGC8367 Scientific Background: PCNA is a nuclear protein whose appearance correlates with the proliferative state of the cells and is a cofactor of DNA polymerase delta. PCNA is a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, PCNA is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Immunofluorescence studies have shown that p300 may play a role in DNA repair synthesis through its interaction with PCNA. In vitro and in vivo p300 forms a complex with PCNA that does not depend on the S phase of the cell cycle and stimulates DNA synthesis in vitro (1). PCNA interacts with the Williams syndrome transcription factor (WSTF) allowing it to target to DNA replication foci, that then allows recruitment of SNF2H (2).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	33239449
NCBI GeneID	5111
NCBI Accession #	NP_002583.1
NCBI GenBank Nucleotide #	NM_002592
UniProt Accession #	P12004 ; B2R897 ; D3DW02
Molecular Weight	37 kDa
NCBI Official Full Name	Homo sapiens proliferating cell nuclear antigen (PCNA), transcript variant 1, mRNA
NCBI Official Synonym Full Names	proliferating cell nuclear antigen
NCBI Official Symbol	PCNA
NCBI Protein Information	proliferating cell nuclear antigen; cyclin; DNA polymerase delta auxiliary protein
UniProt Protein Name	Proliferating cell nuclear antigen
UniProt Gene Name	PCNA
UniProt Synonym Gene Names	PCNA
UniProt Entry Name	PCNA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pcna-recombinant-protein-e-coli-wb-western-blot/72901>