

Datasheet for ABIN6700419 **PCNA Protein (His tag)**



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Overview

Quantity:	20 µg
Target:	PCNA
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PCNA protein is labelled with His tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	PCNA recombinant protein-HIS Epitope
Purification:	Recombinant full-length human PCNA was expressed by E. coli cells using an N-Terminal his epitope. The purity was determined to be >90% by densitometry.
Purity:	>90%

Target Details

Target:	PCNA
Alternative Name:	PCNA (PCNA Products)
Background:	Synonyms: MGC8367, Proliferating cell nuclear antigen, PCNA, Cyclin 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

Target Details

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). PCNA Protein is ideal for investigators involved in Signaling Proteins, Acetyl/Methyltransferase Proteins, Cancer, Cell Cycle, ERK/MAPK Pathway, and WNT Signaling research.

NCBI Accession: [NM_002592](#)

Pathways: [Telomere Maintenance](#), [DNA Damage Repair](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Synthesis of DNA](#), [Autophagy](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Application_Note: PCNA Protein is suitable for use in Western Blot. Expect a band approximately ~30 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 µg/µL

Buffer: PCNA Protein is stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.

Storage: -80 °C

Storage Comment: 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.

Expiry Date: 12 months