Recombinant Human Proliferating cell nuclear antigen/PCNA Protein

RPCB1784

Product Information

Product SKU:	RPCB1784	**Gene ID**:	5111	**Size**:	10µg
Tag:	N-HA	**Reactivity**:	Human		

Additional Information

Expression Host:	HEK293 cells	**Swissprot:**	P12004
Purity:	> 92% by SDS-PAGE.		

Protein Information

Background: Proliferating Cell Nuclear Antigen (PCNA) is a protein only expressed in normal proliferate cells and cancer cells. It is central to both DNA replication and repair. One of the well-established functions for PCNA is its role as the processivity factor for DNA polymerase delta and epsilon. PCNA tethers the polymerase catalytic unit to the DNA template for rapid and processive DNA synthesis. Two forms of PCNA exist in cells: (i) a detergent-insoluble trimeric form stably associated with the replicating forks during S phase and (ii) a soluble form in quiescent cells in G1 and G2 phases. PCNA forms a toroidal trimer in S phase with replication factor-C (RF-C) and DNA in an ATP-dependent manner and enables the loading of DNA polymerase delta and epsilon onto the complex. The close association of PCNA with kinase complexes involved in cell cycle machinery indicates that PCNA has a regulatory role in cell cycle progression. PCNA also participates in the processing of branched intermediates that arise during the lagging strand DNA synthesis.

Protein Description: High quality, high purity and low endotoxin recombinant Recombinant Human Proliferating cell nuclear antigen/PCNA Protein , tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.

Endotoxin: <0.1EU/µg

Formulation: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Contact Details | Dublin, Ireland
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Storage: Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

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