



Human Proliferating Cell Nuclear Antigen [His] (DAG615)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Species	Human
Purity	>90% as determined by SDS-PAGE
Conjugate	His
Applications	WB, ELISA
Molecular Weight	30 kDa
Format	Liquid
Concentration	Batch dependent - please inquire should you have specific requirements
Size	50 µg
Buffer	Neutral to slightlyalkaline pH, and 20 % glycerol as cryoprotective agent.
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Proliferating CellNuclear Antigen, commonly known as PCNA, is a protein that acts as aprocessivity factor for DNA polymerase δ in eukaryotic cells. It achievesthis processivity by encircling the DNA, thus creating a topological link tothe genome. It is an example of a DNA clamp. The protein encoded by this geneis found in the nucleus and is a cofactor of DNA polymerase delta. Theencoded protein acts as a homotrimer and helps increase the
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processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome.

Keywords	PCNA; sliding clamp PCNA
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