



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Recombinant Human Proliferating Cell Antigen

Catalog No.
228-11206

Source
Sf9 insect cells.

Description

Proliferating cell nuclear antigen (PCNA), a protein of 30 kDa molecular weight also known as cyclin, forms a trimer ring around a DNA double-helix. It binds to a variety of other nuclear proteins and thereby organises biochemical processes at the DNA replication fork. PCNA thereby assumes important functions in DNA synthesis, repair and processing, the regulation of cell cycle and even apoptosis. Anti-PCNA antibodies occur in systemic lupus, where they represent a rare specificity (< 10 % of SLE patients). However, their presence alone or in combination with other autoantibodies should alert the clinician to the presence of defined or evolving SLE. Recombinant Human PCNA produced in SF9 is a glycosylated, polypeptide chain having a molecular mass of 29,794 dalton. rHuPCNA is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.

Formulation

Recombinant Human PCNA is supplied at a of 0.65mg/ml in 16mM HEPES buffer pH-8, 400mM NaCl, and 20% glycerol.

Immunological functions

1. Binds IgG-type human auto-antibodies.
2. Standard ELISA test (checker-board analysis of positive/negative sera panels, immuno-dot analysis with validated SLE patient sera)

Applications

Western-Blot with monoclonal anti-hexa-His-tag antibody & Scleroderma patient sera.

Coating concentration

0.5-1.1 µg/ml (depending on the type of ELISA plate and coating buffer).
Suitable for biotinylation and iodination.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Storage Conditions

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Purity

Greater than 90% (SDS-PAGE).

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