ALPHA DIAGNOSTIC INTERNATIONAL

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Product Specification Sheet

Human Proliferating Cell Nuclear Antigen (PCNA) protein

½ **Cat.** PCNA15-R-10 Recombinant (sf9) human Proliferating Cell Nuclear Antigen (PCNA) protein **SIZE**: 10 ug

Expression of proliferating cell nuclear antigen (PCNA) or cyclin or polymerase delta auxiliary protein is elevated in the nucleus during late G1 phase immediately before the onset of DNA synthesis, becoming maximal during S-phase and declining during G2 and M phases. PCNA/cyclin may act as an auxiliary protein of DNA polymerase delta to play a fundamental role in the initiation of cell proliferation.

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.

Source of Antigen and Antibodies

Human PCNA protein (**AAH00491, 1-262 aa)** was expressed in baculovirus (sf9) as His-tag fusion protein and purified (>95%, mol wt ~30 Kda). It is supplied in PBS, pH 7.4 and 0.01% azide (or see lot sp. conc on the vial). Store at -20oC and avoid repeated freeze and thaw.

Calculated pI=pH 4.8

Immunological test: Detects anti-PCNA nu dot blot, ELISA, and microarray.

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at –20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at –20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

ELISA: use at 0.1-1 ug/ml

Western blot: load 20-100 ng/well for detection with appropriate antibodies (#PCNA11-M).

General References: Yang A et al (1998) Mol Cell 2, 305-316; Kaghad, M et al (1997) Cell 90, 809-819.

*This product is for in vitro research use only.

Related material available from ADI

Catalog#	ProdDescription
5010	Mouse Anti-Proliferating Cell Nuclear Antigen (PCNA) Ig's ELISA kit, 96 tests, Quantitative
PCNA11-C	Recombinant (sf9) human Proliferating Cell Nuclear Antigen (PCNA) protein control for WB
PCNA11-M	Monoclonal Anti-human Proliferating Cell Nuclear Antigen (PCNA) IgG, aff pure
PCNA12-A	Anti-human Proliferating Cell Nuclear Antigen (PCNA) IgG, aff pure
PCNA15-R-10	Recombinant (baculovirus) purified human Proliferating Cell Nuclear Antigen (PCNA) protein

PCNA15-R-10-Recombinant-PCNA 150717A

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