

## Proliferating Cell Nuclear Antigen (PCNA)

### Antigen Specification

**Product Number: 15400**

**Description:**

Human Proliferating Cell Nuclear Antigen / Cyclin (PCNA). Recombinant antigen for solid (ELISA) and fluid phase diagnostic assays.

**Immunological function:**

Binds IgG-type human auto-antibodies.

**Origin:**

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

**Expression construct:**

Full-length cDNA coding for the human Proliferating Cell Nuclear Antigen / Cyclin fused to a hexa-histidine purification tag.

**Biochemical tests:**

SDS-PAGE (purity > 90 %); Western blot with i: SLE patient sera; ii: monoclonal anti-hexa-His-tag antibody.

**Calculated molecular weight:**

29,794 Dalton

**Calculated isoelectric point:**

pH 4.8

**Immunological tests/Functionality:**

Standard ELISA test (checkerboard analysis of positive/negative sera panels); immunodot analysis with validated SLE patient sera.

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: neutral to slightly alkaline pH, and 20 % glycerol as cryoprotective agent. Storage temperature:  $-70^{\circ}$  to  $-80^{\circ}$  C. Repeated freeze/thaw cycles should be avoided.

**Coating concentration:**

0.5-1.1  $\mu$ g/ml (depending on the type of ELISA plate and coating buffer; **CAUTION:** these values are not based on exhaustive testing and are only guidelines for customer's development work).

Suitable for biotinylation and iodination.

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