# Product datasheet Anti-PCNA Antibody Catalog Number: A00125



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

<b>Basic Inform</b>	iativii	
Product Name	Anti-PCNA Antibody	
Gene Name	PCNA	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human PCNA recombinant protein (Position: M1-S261). Human PCNA shares 96.9% and 98.5% amino acid (aa) sequence identity with mouse and rat PCNA, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	36 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): Flow Cytometry (Fixed): Enzyme linked immunosorbent assay (ELISA): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or mins is required for the staining of formalin/paraffin sections determined by end user.	

### **Storage**

12 months from date of receipt, -20°C as supplied.

## **Background Information**

Proliferating cell nuclear antigen (PCNA) is a DNA clamp that acts as a processivity factor for DNA polymerase  $\delta$  in eukaryotic cells and is essential for replication. It is mapped to 20p12.3. The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the 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.

#### Reference



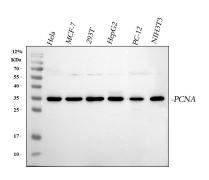
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Anti-PCNA Antibody被引用在51文献中。

### **Selected Validation Data**



Western blot analysis of PCNA using anti-PCNA antibody (A00125). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,

Lane 2: human MCF-7 whole cell lysates,

Lane 3: human 293T whole cell lysates,

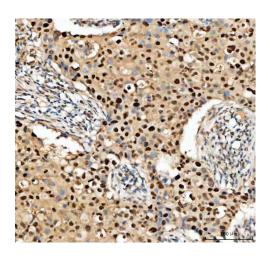
Lane 4: human HepG2 whole cell lysates,

Lane 5: rat PC-12 whole cell lysates,

Lane 6: mouse NIG/3T3 whole cell lysates.

DAB (Catalog # AR1027) as the chromogen.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PCNA antigen affinity purified polyclonal antibody (A00125) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PCNA at approximately 36 kDa. The expected band size for PCNA is at 29 kDa.



IHC analysis of PCNA using anti-PCNA antibody (A00125) .

PCNA was detected in a paraffin-embedded section of human breast cancer tissue. The tissue section was incubated with rabbit anti-PCNA Antibody (A00125) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with

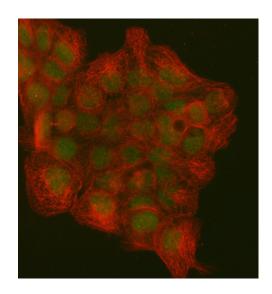
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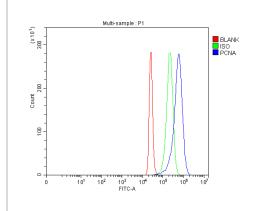
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IF analysis of PCNA using anti-PCNA antibody (A00125) and anti-Beta Tubulin antibody (M01857-3).

PCNA was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-PCNA Antibody (A00125) at a dilution of 1:100. Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and cy3-conjugated Anti- mouse IgG Secondary Antibody (red)(Catalog#BA1031) were used as secondary antibody.



Flow Cytometry analysis of 293T cells using anti-PCNA antibody (A00125). Overlay histogram showing 293T cells stained with A00125 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PCNA Antibody (A00125, 1:100). DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (Catalog # BA1045) (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.