

## PCNA Recombinant antibody

**Cat:**B16011R

**Company:** HaoKebio

**Uniprot ID:**P12004

**Applications:** IHC:1:2000-1:8000

**Organism:**Rabbit

IHC-Polymer:1:8000-1:32000

**Species reactivity:**Human Mouse Rat

IHC-TSA:1:10000-1:40000

IF:1:100-1:400

WB:1:5000-1:50000

### Background:

Proliferating Cell Nuclear Antigen, commonly known as PCNA, is a protein that acts as a processivity factor for DNA polymerase  $\delta$  in eukaryotic cells. This protein is an auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. PCNA induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. It has to be loaded onto DNA in order to be able to stimulate APEX2. PCNA protein is highly conserved during evolution; the deduced amino acid sequences of rat and human differ by only 4 of 261 amino acids. PCNA has been used as loading control for proliferating cells. The calculated molecular weight of PCNA is 29 kDa, but modified PCNA is 36kDa.

### Protein full name:

proliferating cell nuclear antigen

### Synonyms:

240306B9, Cyclin, proliferating cell nuclear antigen

### Immunogen:

Recombinant protein

### Isotype:

IgG

### Subcellular location:

Nucleus

### Purity:

Affinity purification

### Form:

Liquid

### Storage Buffer:

 PBS with 0.02% sodium azide, 100  $\mu$ g/ml BSA and 50% glycerol.

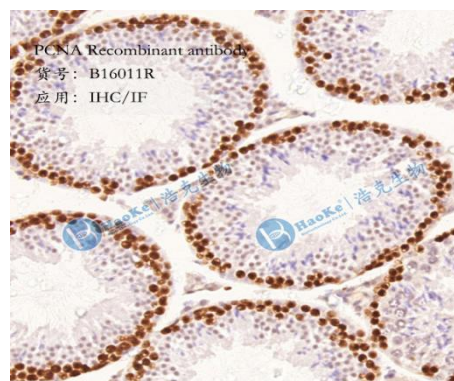
### Storage:

Store at -20 °C for one year.

### Experimental procedure:

Antigen retrieval: Citrate buffer (pH 6.0), Medium high heat for 8 minutes, stop for 7 minutes, medium high heat for 8 minutes. Incubate antibody, 4°C overnight. Secondary antibody: Poly-HRP Goat Anti-Rabbit & Mouse Universal Secondary Antibody, RT, 1h.

### Images:



Sample: Mouse testicle, 4% PFA 12-24h

### Source of Reagents:

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