

## Basic Information

Product Name	Anti-PCNA Antibody	
Gene Name	PCNA	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, IP, FCM	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.	
Immunogen	A synthesized peptide derived from human PCNA	
concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	36KD	
Dilution Ratios	Western blot (WB): 1:1000-5000 Immunohistochemistry in paraffin section (IHC): 1:20-100 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:20-100 Immunoprecipitation: 1:20 Flow cytometry (FCM): 1:20	

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## 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

Anti-PCNA Antibody被引用在4文献中。

## Selected Validation Data

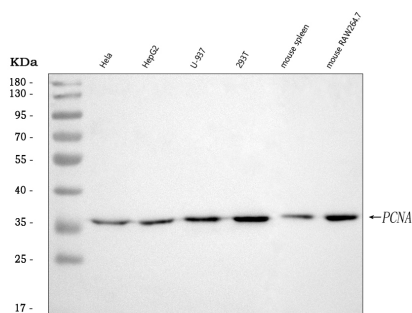


Figure 1. Western blot analysis of anti- PCNA antibody (BM3888). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: HeLa whole cell lysates,  
Lane 2: HepG2 whole cell lysates,  
Lane 3: U-937 whole cell lysates,  
Lane 4: 293T whole cell lysates,  
Lane 5: mouse spleen tissue lysates,  
Lane 6: rat RAW264.7 tissue lysates.

Use mouse anti- PCNA 1:1000, probed with a goat anti-mouse IgG- HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for PCNA at approximately 36KD. The expected band size for PCNA is at 29KD.

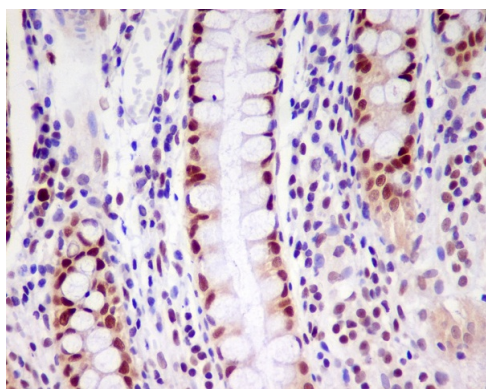


Figure 2. IHC analysis using anti- PCNA antibody (BM3888). detected in paraffin-embedded section of paraffin-embedded human colon tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.