

## Basic Information

<b>Product Name</b>	Anti-PCNA Antibody (Clone#DO-16)	
<b>Gene Name</b>	PCNA	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, ICC/IF, IP, FCM	
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthesized peptide derived from human PCNA	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Affinity-chromatography	
<b>Observed MW</b>	36 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:1000-5000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:20
	Flow Cytometry (FCM):	1:20

## Storage

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

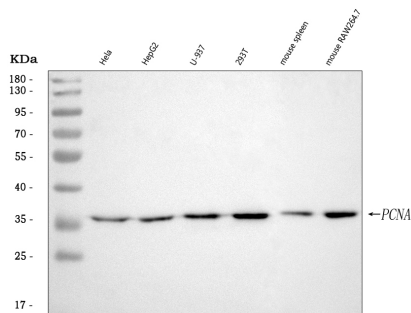
## Background Information

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

Anti-PCNA Antibody (Clone#DO-16)被引用在34文献中。

## Selected Validation Data



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,

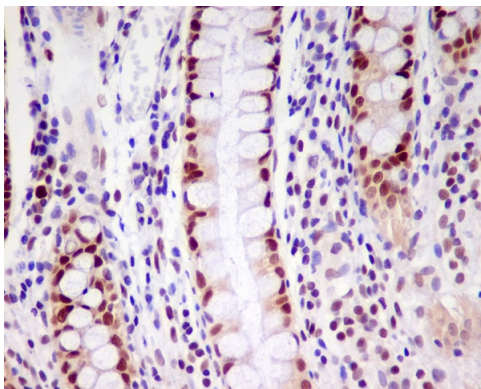
Lane 3: U-937 whole cell lysates,

Lane 4: 293T whole cell lysates,

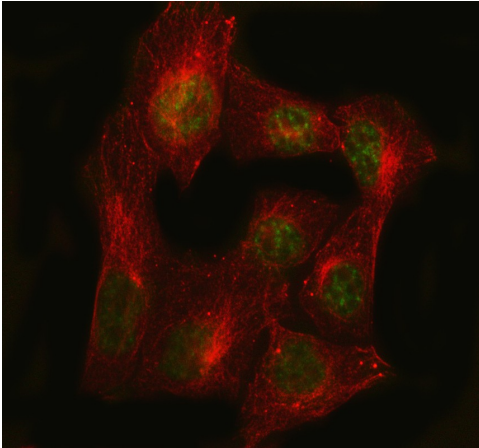
Lane 5: mouse spleen tissue lysates,

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.



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.



IF analysis of PCNA using anti-PCNA antibody (BM3888) and anti-Beta Tubulin antibody (M01857-3).

PCNA was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-PCNA Antibody (BM3888) at a dilution of 1:100. Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and Dylight550-conjugated Anti-mouse IgG Secondary Antibody (red)(Catalog#BA1133) were used as secondary antibody.