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## PCNA Recombinant Rabbit mAb, Nuclear Loading Control

Catalog Number: bsm-52347R

Target Protein: PCNA

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Recombinant

Clone No.: 1G3

Isotype: IgG

Applications: WB (1:1000-10000), IHC-P (1:200-1000), IHC-F (1:200-1000), IF (1:200-1000), Flow-Cyt (1ug/Test), ICC/IF (1:100-500)

Reactivity: Human, Mouse, Rat

Predicted MW: 29 kDa

Entrez Gene: 5111

Swiss Prot: P12004

Purification: affinity purified by Protein A

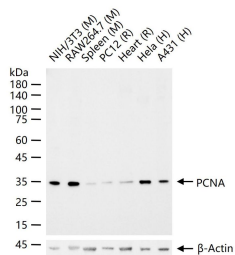
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

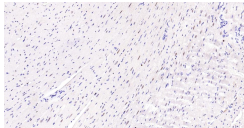
**Background:** Proliferating cell nuclear antigen (PCNA) is a 28kDa nuclear protein associated with the cell cycle, a nuclear protein vital for cellular DNA synthesis. Proliferating cell nuclear antigen was originally identified by immunofluorescence as a nuclear protein whose appearance correlated with the proliferate state of the cell. PCNA is required for replication of DNA in vitro and has been identified as the auxiliary protein (cofactor) for DNA polymerase delta. The anti-PCNA antibodies react with the nuclei of proliferating cells. PCNA is essential for cellular DNA synthesis and is also required for the in vitro replication of simian virus 40 (SV40) DNA where it acts to coordinate leading and lagging strand synthesis at the replication fork. The PCNA protein may fulfil several separate roles in the cell nucleus associated with changes in its antigenic structure.

### VALIDATION IMAGES

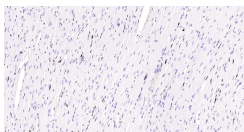
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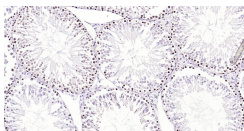
25 ug total protein per lane of various lysates (see on figure) probed with PCNA monoclonal antibody, unconjugated (bsm-52347R) at 1:10000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



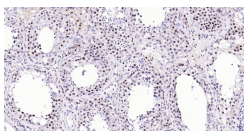
Paraformaldehyde-fixed, paraffin embedded Mouse Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-52347R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



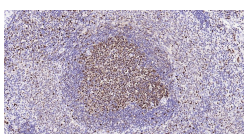
Paraformaldehyde-fixed, paraffin embedded Rat Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-52347R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-52347R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-52347R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-52347R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=5.714] Yayun Xu. et al. Acid sensor ASIC1a induces synovial fibroblast proliferation via Wnt/ $\beta$ -catenin/c-Myc pathway in rheumatoid arthritis. INT IMMUNOPHARMACOL. 2022 Dec;113:109328 IHC,IF ; Rat, Human . 36279671