

bsm-52347R**[Primary Antibody]**

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PCNA Recombinant Rabbit mAb, Nuclear Loading Control

DATASHEET

Host: Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 1G3**GeneID:** 5111**SWISS:** P12004**Target:** PCNA**Immunogen:** A synthesized peptide derived from human PCNA: 100-160/261.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

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.

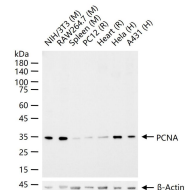
Applications: **WB** (1:1000-20000)
IHC-P (1:200-1000)
IHC-F (1:200-1000)
IF (1:200-1000)
Flow-Cyt (1ug/Test)
ICC/IF (1:100-500)

Reactivity: Human, Mouse, Rat

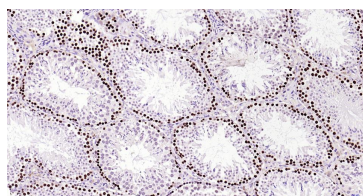
Predicted
MW.: 29 kDa

Subcellular
Location: Nucleus

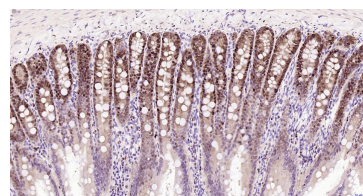
VALIDATION IMAGES



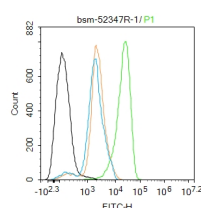
25 ug total protein per lane of various lysates (see on figure) probed with PCNA monoclonal antibody, unconjugated (bsm-52347R) at 1:10000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Mouse Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Monoclonal Antibody, Unconjugated (bsm-52347R) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Monoclonal Antibody, Unconjugated (bsm-52347R) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Blank control: HeLa. Primary Antibody (green line): Rabbit Anti-PCNA antibody (bsm-52347R)
Dilution: 1ug/Test; Secondary Antibody: Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test.
Protocol The cells were fixed with 4% PFA

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

(10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=5.714]** Yayun Xu. et al. Acid sensor ASIC1a induces synovial fibroblast proliferation via Wnt/ β -catenin/c-Myc pathway in rheumatoid arthritis. INT IMMUNOPHARMACOL. 2022 Dec;113:109328 IHC,IF ;Rat, Human. 36279671
- **[IF=5.3]** Caixia Tan. et al.Mcl-1 downregulation enhances BCG treatment efficacy in bladder cancer by promoting macrophage polarization.Cancer Cell International.2025 Feb 15;25(1):48. ;. 39955585
- **[IF=2.6]** Han Wang. et al. Ganoderma lucidum extract reduces skin aging by reducing mitochondrial stress and controlling mitochondrial numbers. FITOTERAPIA. 2025 May;;106627 IHC ;Mouse. 40381851