
PCNA Mouse mAb, Nuclear Loading Control

Catalog Number: bsm-33035M

Target Protein: PCNA

Concentration: 1mg/ml

Form: Size : 50ul/100ul/500ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 10E9

Isotype: IgG

Applications: WB (1:500-5000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1:50)

Reactivity: Human, Mouse, Rat

Predicted MW: 29 kDa

Entrez Gene: 5111

Swiss Prot: P12004

Purification: affinity purified by Protein G

Storage: Size : 50ul/100ul/500ul

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

Size : 200ug (PBS only)

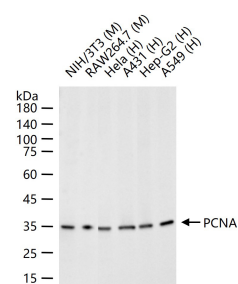
0.01M PBS

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

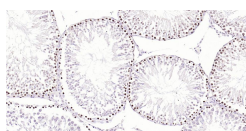
Background: Proliferating cell nuclear antigen (PCNA) is a 28kDa nuclear protein associated with the cell cycle, a nuclear protein vital for cellular DNA synthesis. Proliferating cell nuclear antigen was originally identified by immunofluorescence as a nuclear protein whose appearance correlated with 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.

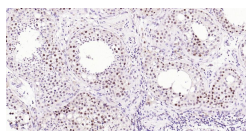
VALIDATION IMAGES



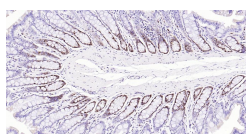
25 ug total protein per lane of various lysates (see on figure) probed with PCNA monoclonal antibody, unconjugated (bsm-33035M) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



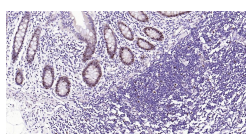
Paraformaldehyde-fixed, paraffin embedded Rat Testis; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA(Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-33035M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



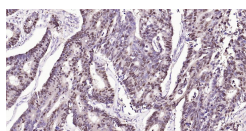
Paraformaldehyde-fixed, paraffin embedded Human Testis; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA(Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-33035M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA(Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-33035M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA(Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-33035M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA(Nuclear Loading Control) Monoclonal Antibody, Unconjugated(bsm-33035M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=6.656] Mingzhu Xiao. et al. Nuciferine attenuates atherosclerosis by regulating the proliferation and migration of VSMCs through the Calm4/MMP12/AKT pathway in ApoE(-/-) mice fed with High-Fat-Diet. PHYTOMEDICINE. 2023 Jan;108:154536 IF ; Mouse . 36395561

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

- [IF=3.99] Zhang, Zhongwei, et al. "Generation of glucagon - like peptide - 2 - expressing *Saccharomyces cerevisiae* and its improvement of the intestinal health of weaned rats." *Microbial Biotechnology* (2016). IHC ; ="Rat" . 27641625
- [IF=3.3] Zhang et al. Hydrogen-rich water protects against acetaminophen-induced hepatotoxicity in mice. (2015) *World.J.Gastroenterol.* 21:4195-209 IHC ; Mouse . 25892869
- [IF=2.6] Xu Hongyan. et al. The New Roles of *traf6* Gene Involved in the Development of Zebrafish Liver and Gonads. *MAR BIOTECHNOL.* 2024 Jun;;1-14 IF ; Zebrafish . 38861111
- [IF=2.24] Chen, Xiaodong, et al. "The effect of porcine ADM to improve the burn wound healing." *Int J Clin Exp Pathol* 6.11 (2013): 2280-2291. WB ; ="Rat" . 24228089