bsm-33035M **[Primary Antibody]**

PCNA Mouse mAb, Nuclear Loading Control

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 10E9
GeneID: 5111
SWISS: P12004
Target: PCNA
Purification: affinity purified by Protein G
Concentration: 1mg/ml
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.

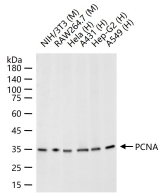
Applications: **WB** (1:500-5000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1:50)

Reactivity: Human, Mouse, Rat

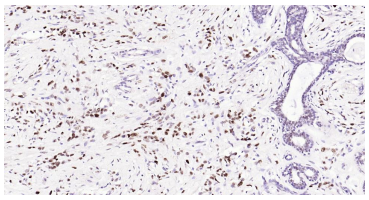
Predicted MW.: 29 kDa

Subcellular Location: Nucleus

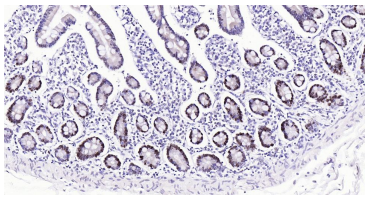
VALIDATION IMAGES



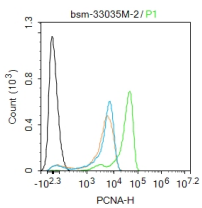
25 ug total protein per lane of various lysates (see on figure) probed with PCNA monoclonal antibody, unconjugated (bsm-33035M) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Breast 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.



Paraformaldehyde-fixed, paraffin embedded Human Duodenum; 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.



Blank control:Jurkat. Primary Antibody (green line): Mouse Anti-PCNA antibody (bsm-33035M) Dilution: 1:50; Secondary Antibody : Goat anti-mouse IgG-FITC Dilution: 0.5ug/Test. Protocol

The cells were fixed with 4% PFA (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=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
- **[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