
Histone H3 Mouse mAb, Nuclear Loading Control

Catalog Number: bsm-33042M

Target Protein: Histone H3

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.: 3G1

Isotype: IgG

Applications: WB (1:2000-20000), IHC-P (1:1000-2000), IHC-F (1:1000-2000), IF (1:100-500)

Reactivity: Human, Mouse, Rat, Hamster (predicted:Bee)

Predicted MW: 15 kDa

Entrez Gene: 8350

Swiss Prot: P68431

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)

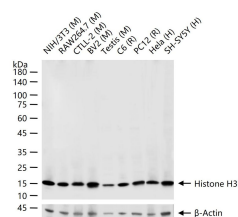
0.01M PBS

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

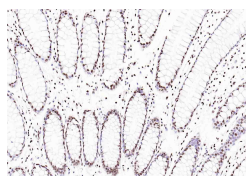
Background: Modulation of the chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of four core histone proteins (H2A, H2B, H3 and H4), is the primary building block of chromatin. The N-terminal tail of core histones undergoes different posttranslational modifications including acetylation, phosphorylation and methylation. These modifications occur in response to cell signal stimuli and have a direct effect on gene expression. In most species, the histone H2B is primarily acetylated at lysines 5, 12, 15 and 20. Histone H3 is primarily acetylated at lysines 9, 14, 18 and 23. Acetylation at lysine 9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms. Phosphorylation at Ser10 of histone

H3 is tightly correlated with chromosome condensation during both mitosis and meiosis.

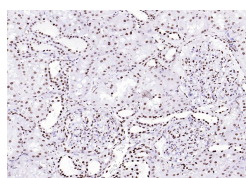
VALIDATION IMAGES



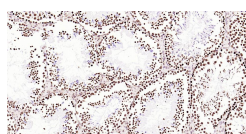
25 ug total protein per lane of various lysates (see on figure) probed with Histone H3 monoclonal antibody, unconjugated (bsm-33042M) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



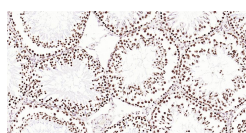
Paraformaldehyde-fixed, paraffin embedded (human colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Control)) Monoclonal Antibody, Unconjugated (bsm-33042M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



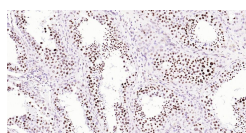
Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H3 (Nuclear Loading Control)) Monoclonal Antibody, Unconjugated (bsm-33042M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Histone H3 Monoclonal Antibody, Unconjugated (ascites of bsm-33042M) at 1:1500 overnight at 4°C, followed by conjugation to the bs-40296G-HRP 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 Histone H3 Monoclonal Antibody, Unconjugated (ascites of bsm-33042M) at 1:1500 overnight at 4°C, followed by conjugation to the bs-40296G-HRP 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 Histone H3 Monoclonal Antibody, Unconjugated (ascites of bsm-33042M) at 1:1500 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=7.525] Chu Xuan. et al. DNMT3A R882H mutation drives daunorubicin resistance in acute myeloid leukemia via regulating NRF2/NQO1 pathway. CELL COMMUN SIGNAL. 2022 Dec;20(1):1-14 WB ; Human . 36303144

[IF=4.96] Lei Chen. et al. Perillaldehyde: A promising antifungal agent to treat oropharyngeal candidiasis. Biochem Pharmacol. 2020

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

Oct;180:114201 WB ; Mouse . 32822688

[IF=4.96] Chen L et al. Perillaldehyde: a promising antifungal agent to treat oropharyngeal candidiasis Biochem Pharmacol. 2020 Aug 18;114201. WB ; mouse . 32822688

[IF=4.868] Zheng GH et al. Purple Sweet Potato Color Attenuates Kidney Damage by Blocking VEGFR2/ROS/NLRP3 Signaling in High-Fat Diet-Treated Mice. Oxid Med Cell Longev. 2019 Jan 22;2019:5189819. WB ; Mouse . 30805082

[IF=4.8] Hongying Dong. et al. Pueraria lobata antioxidant extract ameliorates non-alcoholic fatty liver by altering hepatic fat accumulation and oxidative stress. J ETHNOPHARMACOL. 2024 Oct;333:118468 WB ; Rat . 38906339