

bsm-33042M**[Primary Antibody]**
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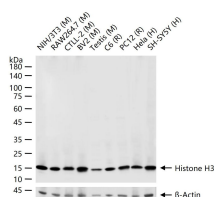
400-901-9800

Histone H3 Mouse mAb, Nuclear Loading Control

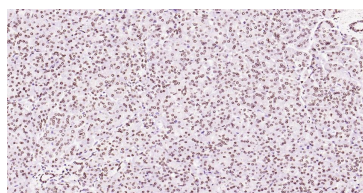
DATASHEET

Host: Mouse	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 Subcellular Location: Nucleus
Clonality: Monoclonal	CloneNo.: 3G1	
GeneID: 8350	SWISS: P68431	
Target: Histone H3		
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: 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.		

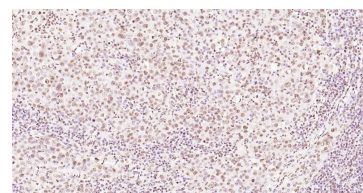
VALIDATION IMAGES



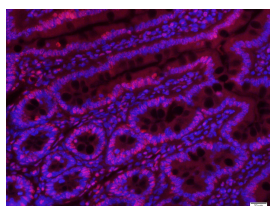
25 ug total protein per lane of various lysates (see on figure) probed with Histone H3 monoclonal antibody, unconjugated (bsm-33042M) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



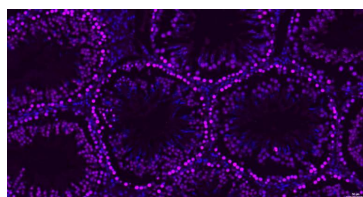
Paraformaldehyde-fixed, paraffin embedded Human Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Histone H3 Monoclonal Antibody, Unconjugated (ascites of bsm-33042M) at 1:1500 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and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



Paraformaldehyde-fixed, paraffin embedded Human Gastric Cancer; 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 colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block



Paraformaldehyde-fixed, paraffin embedded Rat testis; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody

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endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H3/HIST3H3) Monoclonal Antibody, Unconjugated (bsm-33042M) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (bs-0296G-cy3) for 90 minutes, and DAPI for nuclei staining.

incubation with Histone H3 Monoclonal Antibody, Unconjugated (bsm-33042M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (Purple, bs-0296G-Cy5), DAPI (blue, C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=11.7]** Shuai Yang. et al. LTA4H improves the tumor microenvironment and prevents HCC progression via targeting the HNRNP A1/LTBP1/TGF- β axis. *Cell Reports Medicine*. 2025 Mar 2;102000. Western blot ;Mouse. 40056904
- **[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 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=4.8]** 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