bsm-33116M **[Primary Antibody]**

Histone H3 (mono methyl K9) Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG1
Clonality: Monoclonal
CloneNo.: 3F8
GeneID: 8350
SWISS: P68431
Target: Histone H3 (mono methyl K9)
Immunogen: KLH conjugated synthesised methylpeptide derived from human Histone H3 around the methylation site of mono methyl K9: AR(mono Methyl-K)ST.
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: Size : 50ul/100ul/200ul
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.

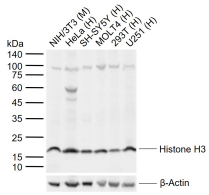
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Cow)

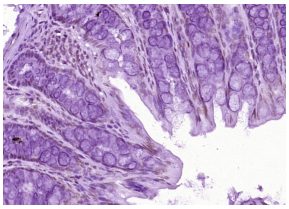
Predicted MW.: 15 kDa

Subcellular Location: Nucleus

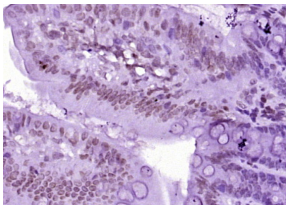
VALIDATION IMAGES



Sample: Lane 1: Mouse NIH/3T3 cell lysates Lane 2: Human HeLa cell lysates Lane 3: Human SH-SY5Y cell lysates Lane 4: Human MOLT4 cell lysates Lane 5: Human 293T cell lysates Lane 6: Human U251 cell lysates Primary: Anti-Histone H3 (mono methyl K9) (bsm-33116M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 15 kDa Observed band size: 17 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse colon tissue); 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 (mono methyl K9)) Monoclonal Antibody, Unconjugated (ascites of bsm-33116M) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse intestine tissue); 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 (mono methyl K9)) Monoclonal Antibody, Unconjugated (ascites of bsm-33116M) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.