bsm-33303M **[Primary Antibody]**

Histone H3 (acetyl K9) Mouse mAb

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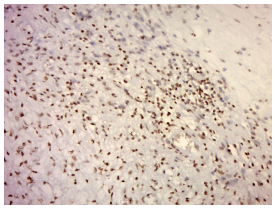
DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 4E7
GeneID: 8350
SWISS: P68431
Target: Histone H3 (acetyl K9)
Immunogen: KLH conjugated synthesised acetylpeptide derived from human Histone H3 around the acetylation site of K9: AR(Ac-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: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Reactivity: Human (predicted: Mouse, Rat)
Predicted MW.: 15 kDa
Subcellular Location: Nucleus

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Human neurinoma); 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 (acetyl K9)) Polyclonal Antibody, Unconjugated (bsm-33303M-4E7) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=2.1]** Qing Shu. et al. Mechanisms by which electroacupuncture-mediated histone acetylation mitigates bone loss in

rats with ovariectomy-induced osteoporosis. Mol Med Rep. 2020 Oct;22(4):3453-3463 IF ;Rat. 32945471