**bsm-33098M** **[ Primary Antibody ]**

# Histone H3 (tri methyl K79) Mouse mAb

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## DATASHEET

**Host:** Mouse
**Isotype:** IgG2b
**Clonality:** Monoclonal
**CloneNo.:** 3C7
**GeneID:** 8350
**SWISS:** P68431
**Target:** Histone H3 (tri methyl K79)
**Immunogen:** KLH conjugated synthesised methylpeptide derived from human Histone H3 around the methylation site of Tri Methyl K79: DF(tri methyl K)TD.
**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.

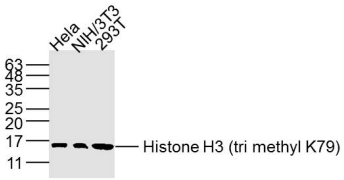
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)

**Reactivity:** Human, Mouse, Rat

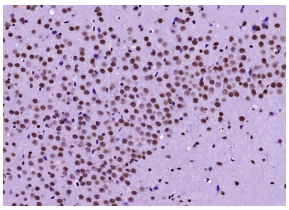
**Predicted MW.:** 15 kDa

**Subcellular Location:** Nucleus

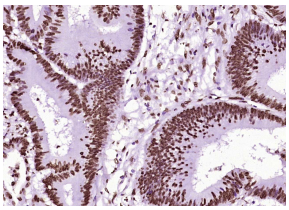
## VALIDATION IMAGES




Sample: Hela Cell (Human) Lysate at 40 ug NIH/3T3 Cell (Mouse) Lysate at 40 ug 293T Cell (Human) Lysate at 40 ug Primary: Anti-Histone H3 (tri methyl K79) (bsm-33098M) at 1/2 000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 15 kD Observed band size: 15 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (tri methyl K79)) Monoclonal Antibody, Unconjugated (ascites of bsm-33098M 3C7) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human colon carcinoma); 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 (tri methyl K79)) Monoclonal Antibody, Unconjugated (ascites of bsm-33098M 3C7) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.