

## Mono/Di-Methyl-Histone H3 (Lys56) Mouse mAb

Catalog Number: bsm-60144M

Target Protein: Mono/Di-Methyl-Histone H3 (Lys56)

Concentration: 1mg/ml

Form: Liquid

Host: Mouse

Clonality: Monoclonal

Clone No.: G10A3

Isotype: IgG

Applications: WB (1:500-1:2000)

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

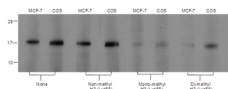
Purification: Antigen affinity purification

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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



Blocking buffer: 5% NFD/MTBST Primary ab dilution: 1:2000 Primary ab incubation condition: PTM-669, PTM-669±H3K56me1 peptide, PTM-669±H3K56me2 peptide, 2 hours at room temperature Secondary ab: Goat Anti-Mouse IgG H&L (HRP) Lysate: MCF-7, COS Protein loading quantity: 20 µg Exposure time: 60 s Predicted MW: 17 kDa Observed MW: 17 kDa