bsm-60866R **[Primary Antibody]**

Citrulline-Histone H3 (Arg2/8/17) Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 11E7

Target: Citrulline-Histone H3 (Arg2/8/17)
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: PBS, Glycerol, BSA.
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.

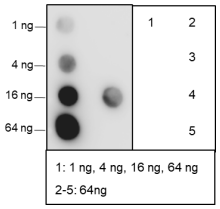
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human

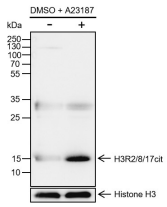
Predicted MW.: 15 kDa

Subcellular Location: Nucleus

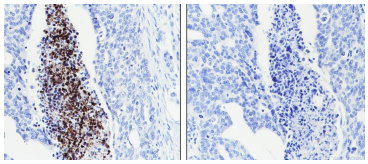
VALIDATION IMAGES



Sealing solution and concentration: 5% NFDM/TBST Dilution of primary antibody: 1:2000 Incubation conditions for primary antibody: 2 hours at room temperature Immunogen peptide sample size: 1:1 ng, 4 ng, 16 ng, 64 ng, 2-6:64ng Exposure time: 10 seconds



Sealing solution and concentration: 5% NFDM/TBST Dilution of primary antibody: 1:20000 Incubation conditions for primary antibody: 2 hours at room temperature Secondary antibody: Goat Anti-Rabbit IgG H&L (HRP) Cracking solution: (-): HL-60, (+): HL-60 + DMSO + A23187 (4uM,15min) Protein loading amount: 20 μ g Exposure time: 60 seconds Theoretical molecular weight: 15 kDa Actual molecular weight: 15 kDa



Paraformaldehyde-fixed, paraffin embedded Human Ovarian Cancer; Antigen retrieval by boiling in EDTA buffer (pH9.0) for 15 min; Antibody incubation with Citrulline-Histone H3 (Arg2/8/17) Monoclonal Antibody, Unconjugated(bsm-60866R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining. Negative control: site-specific peptide blocking