bsm-60046M **[Primary Antibody]**

Histone H2B (Acetyl K12) Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: H2D4
GeneID: 3018
SWISS: P33778
Target: Histone H2B (Acetyl K12)
Purification: affinity purified by Protein G
Concentration: 1mg/ml
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: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H2B family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Jul 2008].

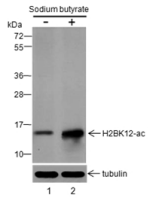
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:50-100)
IF (1:50-100)

Reactivity: Human (predicted: Mouse, Rat)

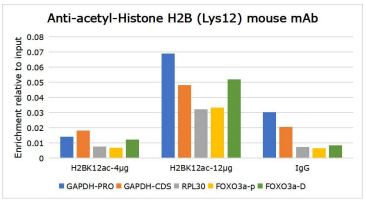
Predicted MW.: 14 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:2000 Primary ab incubation condition: 2 hours at room temperature Secondary ab: Goat Anti-Mouse IgG H&L (HRP) Lysate: (-) HeLa, (+) HeLa+Sodium butyrate (30mM, 4hr) Protein loading quantity: 20 µg Exposure time: 60 s Predicted MW: 14 kDa Observed MW: 14 kDa



Cell type: HeLa + Serum starvation (12 h) + SBA (5 mM, 24 h) Cross-linking conditions: No cross-linking Amount of chromatin per IP: 5×106 cells Amount of Ab per IP: 12 µg Beads type and amount per IP: 50 µL of Protein A/G MagBeads Comment: The ChIP was performed with 1 µg of normal rabbit IgG as a negative control. Real time quantitative PCR was performed on immunoprecipitated DNA using primers specific for the human GAPDH promoter, GAPDH CDS region, RPL30 Exon 3, FOXO3a-promoter and FOXO3a-downstream. Data are presented as enrichment of each sample relative to total amount of input chromatin at each amplicon.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.