bsm-54330R

[Primary Antibody]

Histone H4 (acetyl K16) Recombinant Rabbit mAb

– DATASHEET –

Host: Rabbit

Concentration: 1mg/ml

Clonality: Recombinant

Target: Histone H4 (acetyl K16)

Purification: affinity purified by Protein A

Isotype: IgG CloneNo.: 2G2 Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:400-800) IF (1:100-500) ICC/IF (1:200)

Reactivity: Human, Mouse, Rat

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400-901-9800

Predicted MW.: ^{11 kDa}

Subcellular Location: Nucleus

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.

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

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 H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. [provided by RefSeq, Jul 2008]

- 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-Rabbit IgG H&L (HRP) Lysate: (-) HeLa, (+) HeLa+Sodium butyrate (30mM, 4hr) Protein loading quantity: 20 µg Exposure time: 30 s Predicted MW: 11 kDa Observed MW: 11 kDa



Western blot analysis of Histone H4 (acetyl K16) on SiHa cell lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (bsm-54330R, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:200,000 dilution was used for 1 hour at room temperature.



Tissue: Human neuroblastoma Section type: Formalin fixed & Paraffin-embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:200 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Rabbit) (sp-0023) HRP (Ready to use) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for bsm-54330R



Immunohistochemical analysis of paraffinembedded mouse colon tissue using anti-Histone H4 (acetyl K16) antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH20 and PBS, and then probed with the



Cell line: HeLa Fixative: 4% Paraformaldehyde Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:200 Primary incubation condition: 4°C overnight Secondary ab: Goat Anti-Rabbit IgG Nuclear counter stain: DAPI (Blue) Counter stain: Tubulin (Red) Comment: Color green is the positive signal for bsm-54330R



ICC staining of Histone H4 (acetyl K16) in SH-SY5Y cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with the primary antibody (bsm-54330R, 1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor®488





primary antibody (bsm-54330R, 1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX. Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).