

Histone H2A (Acetyl-K9) Rabbit monoclonal antibody

Catalog: BS9860M

Host: Rabbit

Reactivity: Human, Mouse, Rat

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. Global mass spectrometric analysis of histone H2A variants/subtypes and their modifications have only recently been carried out. Nine histone H2A subtypes have been identified, including H2A2A and H2A2B. The two main H2A variants, H2AO and H2AC, as well as H2AL, were either acetylated at Lys 5 or phosphorylated at Ser 1. For the replacement histone H2AZ, acetylation at Lys 4 and Lys 7 was found.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 15 kDa

Swiss-Prot:

P04908/Q93077/Q99878

Purification&Purity:

Protein A affinity purified

Applications:

WB: 1:500-1:1000

IHC/ICC/IF: 1:50-1:200

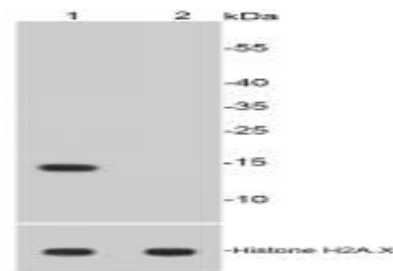
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

This antibody detects endogenous levels of Histone H2A protein only when acetylated at Lys9.

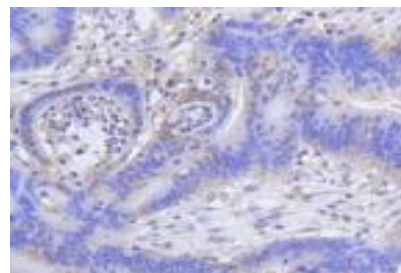
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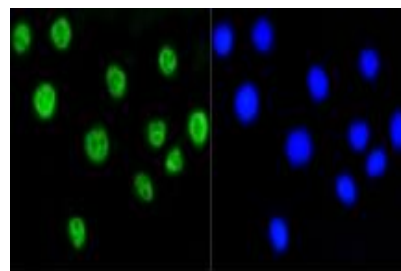
Western blot (WB) analysis of Histone H2A (Acetyl-K9) Rabbit mAb at 1:1000 dilution

Lane 1: HeLa treated with 500 ng/ml Trichostatin A for 4 hours whole cell lysates

Lane 2: Untreated HeLa whole cell lysates



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Histone H2A(acetyl K9) antibody. Counter stained with hematoxylin.



ICC staining Histone H2A(acetyl K9) in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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