



Recombinant Histone H3 (Acetyl Lys4) Monoclonal Antibody

catalog number: AN301407L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human;Rat;Mouse

Immunogen Acetylated human histone H3 (Lys4) peptide

HostRabbitIsotypeIgG, κ CloneA102

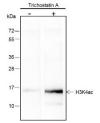
Purification Protein A purified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

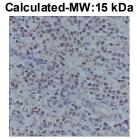
WB 1:500-1:2000 IHC 1:50-1:100 IF 1:50-1:100

Data

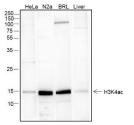


Western Blot with Histone H3 (Acetyl Lys4) Monoclonal Antibody at dilution of 1:2000. (-) HeLa, (+) HeLa+Trichostatin A(2µM, 4hr)

Observed-MW:15 kDa

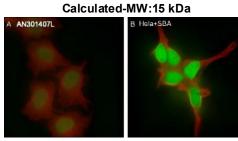


Immunohistochemistry of paraffin-embedded Human neuroblastoma using Histone H3 (Acetyl Lys4) Monoclonal Antibody at dilution of 1:100.



Western Blot with Histone H3 (Acetyl Lys4) Monoclonal Antibody at dilution of 1:2000. Lane 1: HeLa, Lane 2: N2a,

Lane 3: BRL, Lane 4: Mouse liver Observed-MW:15 kDa



Immunofluorescent analysis of (4% Paraformaldehyde) fixed (A) HeLa, (B) HeLa + SBA (5 mM, 24h) cells using anti-Histone H3 (Acetyl Lys4) Monoclonal Antibody at dilution of 1:100.

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

Background

For Research Use Only

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Histone post-translational modifications (PTMs) are key mechanisms of epigenetics that modulate chromatin structures, termed as "histone code". The PTMs on histone including acetylation, methylation, phosphorylation and novel acylations directly affect the accessibility of chromatin to transcription factors and other epigenetic regulators, altering genome stability, gene transcription, etc. Histone acetylation occurs primarily at multiple lysine residues on the amino-terminal of core histones, in response to various stimuli and plays vital roles in the regulation of gene expression, DNA damage repair, chromatin dynamics, etc. Mostly, histone H2A is primarily acetylated at Lys5, 9, 15, and 36; H2B is primarily acetylated at Lys5, 12, 15, 16, and 20. Histone H3 is primarily acetylated at Lys4, 9, 14, 18, 2 3, 27, 56, and 79. Histone H4 is primarily acetylated at Lys5, 8, 12, 16, and 20. Histone acetyltransferases (HATs) and histone deacetylases (HDACs) are major regulating factors.

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