

A Reliable Research Partner in Life Science and Medicine

Recombinant Histone H4 (Acetyl Lys77) Monoclonal Antibody

catalog number: AN301408L

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

Description

Reactivity Human; Rat; Mouse

Immunogen Acetylated human histone H4 (Lys77) peptide

HostRabbitIsotypeIgG, κCloneA103

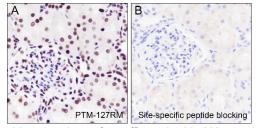
Purification Protein Apurified

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

Applications Recommended Dilution

WB 1:500-1:2000
IHC 1:200-1:1000
IP 1:50-1:100

ChIP 6 μg/5×10⁶ cells



Immunohistochemistry of paraffin-embedded Human kidney using Histone H4 (Acetyl Lys77) Monoclonal Antibody at dilution of 1:1000.

Preparation & Storage

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

Shipping Ice bag

Background

Histone post-translational modifications (PTMs), known as the "histone code", are key mechanisms of epigenetics that modulate chromatin structures. 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 and gene transcription. Histone acetylation, tightly controlled by the opposing action of histone acetyltransferases (HATs) and histone deacetylases (HDACs), occurs primarily at lysine residues on the N-terminal tails of histones H2A (Lys5, 9, and 15), H2B (Lys5, 12, 15, 16, and 20), H3 (Lys4, 9, 14, 18, 23, 27, and 36), and H4 (Lys5, 8, 12, 16, and 20), and plays vital roles in the regulation of gene expression, DNA damage repair, and chromatin dynamics. Recent research has identified that H2BK120ac, H3.3K18ac, and H4K77ac are significantly associated with the survival of hepatocellular carcinoma (HCC) patients. Furthermore, H4K77ac has been linked to HCC recurrence. These findings suggest that H2BK120ac, H3.3K18ac, and H4K77ac may be potential prognostic factors for HCC.

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