

Acetyl-Histone H4-K12 Rabbit mAb

Catalog No.: A23683 Recombinant

Basic Information

Observed MW

11kDa

Calculated MW

11kDa

Category

Primary antibody

Applications

WB, IHC-P, IP, ELISA, CHIP

Cross-Reactivity

Human, Mouse, Rat, Other (Wide Range Predicted)

CloneNo number

ARC57733

Recommended Dilutions

WB 1:500 - 1:1000

IHC-P 1:500 - 1:1000

IP 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

ChIP 5µg antibody for 5µg-10µg of Chromatin

Contact

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Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6.

Immunogen Information

Gene ID

8359/8370

Swiss Prot

P62805

Immunogen

A synthetic acetylated peptide around K12 of human Histone H4 (NP_003486.1).

Synonyms

H4/I; H4C1; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4F1; H4-16; H4C11; H4C12; H4C13; H4C14; H4C15; H4C16; HIST1H4B; Acetyl-Histone H4-K12

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

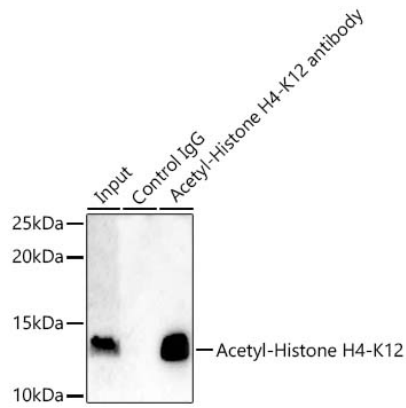
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

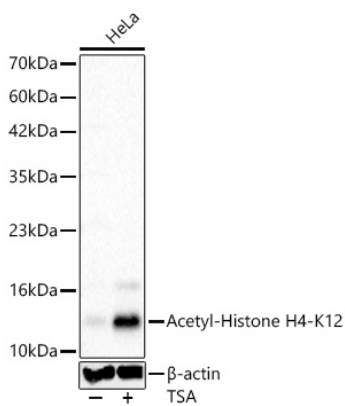


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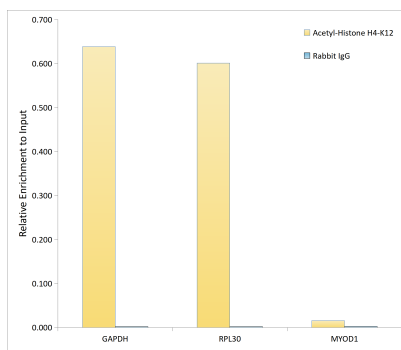
Validation Data



Immunoprecipitation analysis of 600 µg extracts of HeLa cells using 5 µg Acetyl-Histone H4-K12 Rabbit mAb (A23683). Western blot was performed from the immunoprecipitate using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilution of 1:10000.

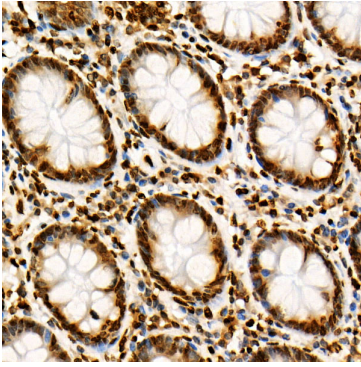


Western blot analysis of lysates from HeLa cells using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at 1:1000 dilution. HeLa cells were treated by 1µM TSA at 37°C for 18 hours after serum starvation overnight.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 0.5s.

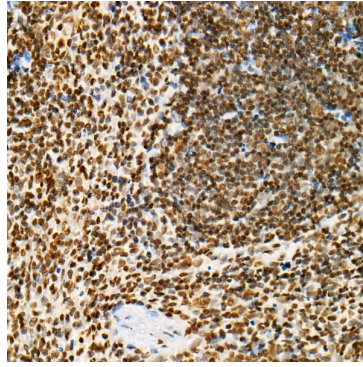


Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H4-K12 antibody (A23683) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Human colon using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.