

Acetyl-Histone H4-K12 Rabbit mAb

Catalog No.: A22754 **Recombinant** **1 Publications**

Basic Information

Observed MW

Calculated MW
11kDa

Category
Primary antibody

Applications
WB,DB,IHC-P,ELISA,ChIP,ChIP-seq

Cross-Reactivity
Human, Mouse, Rat, Other (Wide Range Predicted)

CloneNo number
ARC56881

Recommended Dilutions

WB 1:500 - 1:1000

DB 1:500 - 1:1000

IHC-P 1:100 - 1:500

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

ChIP-seq 1:50 - 1:200

Contact

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Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

Immunogen Information

Gene ID	Swiss Prot
8359	P62805

Immunogen
A synthetic acetylated peptide around K12 of human Histone H4 [P62805].

Synonyms
H4; H4/n; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4F2; H4FN; FO108; H4-16; H4C11; H4C12; H4C13; H4C15; H4C16; HIST2H4; HIST2H4A; Acetyl-Histone H4-K12

Product Information

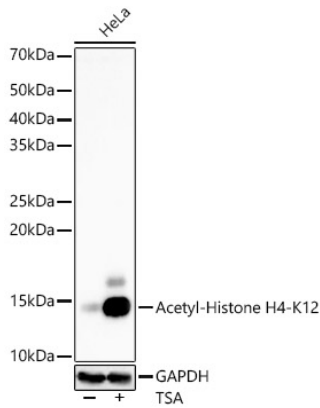
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

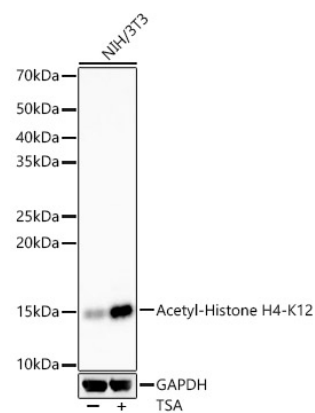


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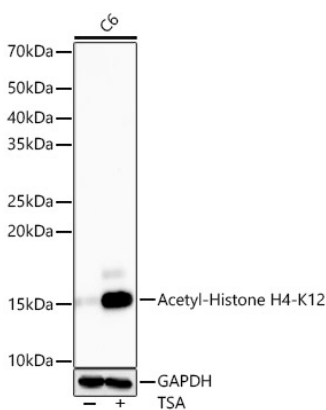
Validation Data



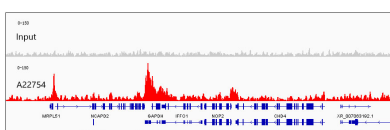
Western blot analysis of various lysates, using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at 1:1000 dilution. HeLa cells were treated by TSA (1 μ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.



Western blot analysis of various lysates, using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at 1:1000 dilution. NIH/3T3 cells were treated by TSA (1 μ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.

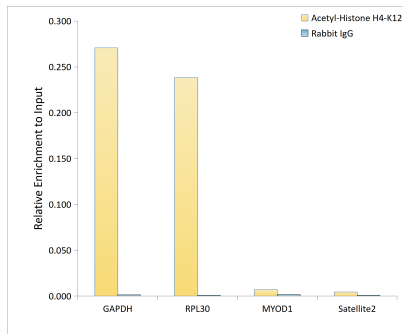


Western blot analysis of lysates from C6 cells, using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at 1:1000 dilution. C6 cells were treated by TSA (1 μ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.

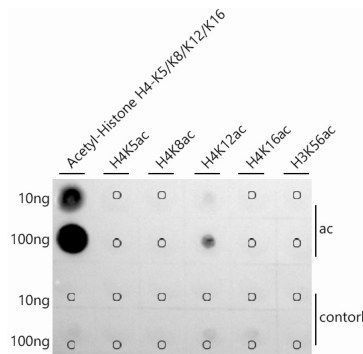


Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and Acetyl-Histone H4-K12 Rabbit mAb (A22754). The ChIP sequencing results indicate the enrichment pattern of Acetyl-Histone H4-K5/K8/K12/K16 in selected genomic region and representative gene loci (GAPDH), as shown in figure.

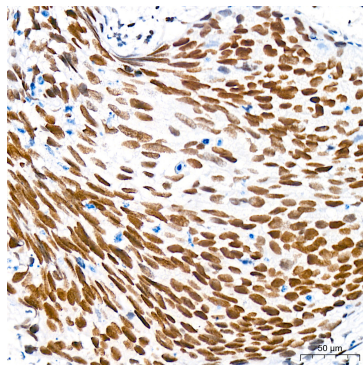
Validation Data



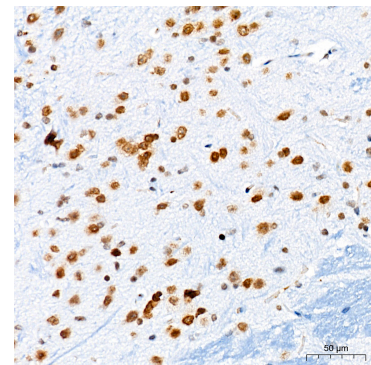
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H4-K12 antibody (A22754) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



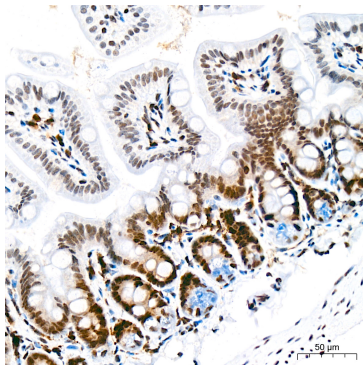
Dot-blot analysis of all sorts of peptides using Acetyl-Histone H4-K12 antibody (A22754) at 1:1000 dilution.



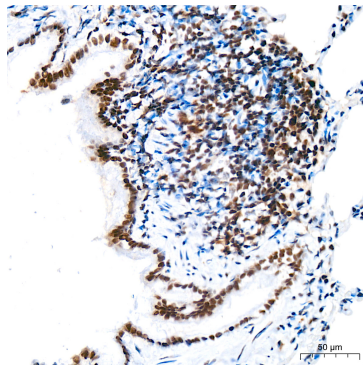
Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



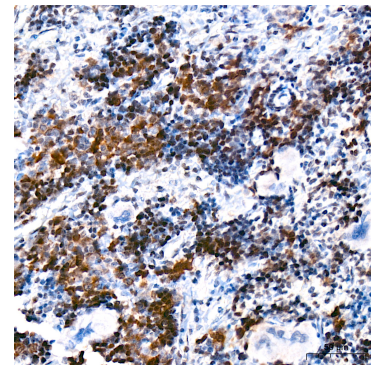
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse intestine tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.