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Acetyl-Histone H4-K5 Rabbit mAb

Catalog No.: A23080 Recombinant

Basic Information

Observed MW
11 kDa/14 kDa

Calculated MW
11 kDa

Category
Primary antibody

Applications
WB,IP,IHC-P,DB,ChIP,ChIP-seq,CUT&Tag,ELISA

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

CloneNo number
ARC58041

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.

Recommended Dilutions

WB	1:2000 - 1:10000
IP	0.5 μg-5 μg antibody for 400 μg-600 μg extracts of whole cells
IHC-P	1:500 - 1:1000
DB	1:500 - 1:2000
ChIP	5 μg antibody for 5 μg-10 μg of Chromatin
ChIP-seq	1:50 - 1:200
CUT&Tag	10^5 cells /1 μg
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
8359

Swiss Prot
P62805

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4FA; H4-16; H4C11; H4C12; H4C13; H4C14; H4C15; H4C16; HIST1H4A; Acetyl-Histone H4-K5

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

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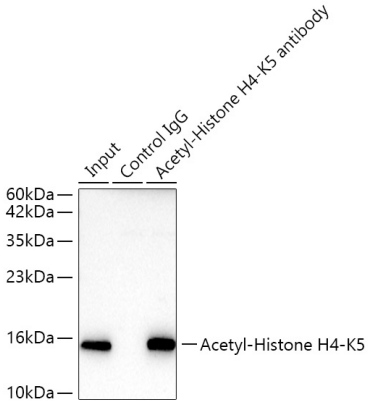
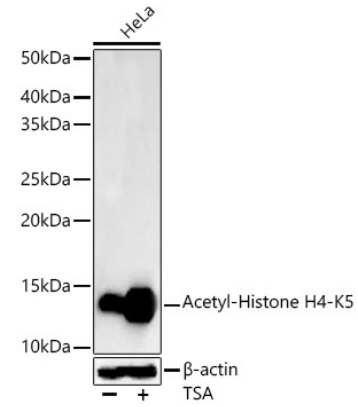
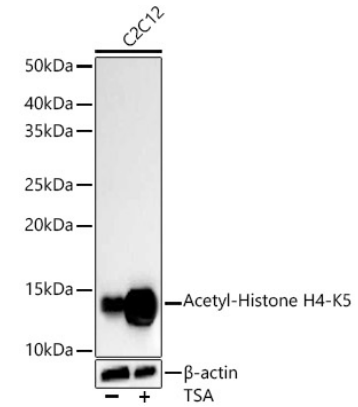
Validation Data



Immunoprecipitation of Acetyl-Histone H4-K5 from 600 µg extracts of HeLa cells treated with TSA(1 µM,18h) was performed using 5 µg of Acetyl-Histone H4-K5 Rabbit mAb (A23080). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilution of 1:10000.

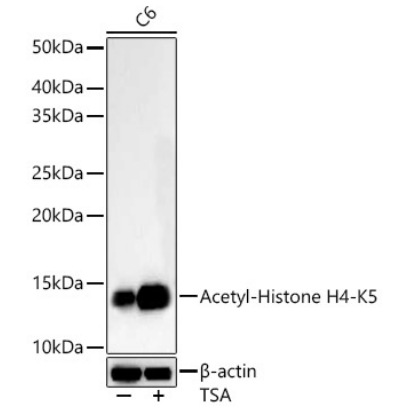


Western blot analysis of lysates from HeLa cells, using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at 1:10000 dilution. HeLa cells were treated with TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.

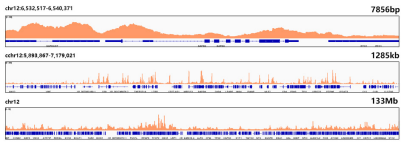


Western blot analysis of lysates from C2C12 cells, using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at 1:10000 dilution. C2C12 cells were treated with TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.

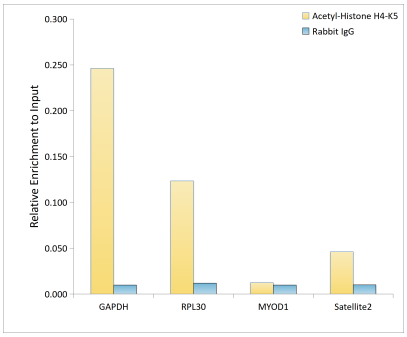
Validation Data



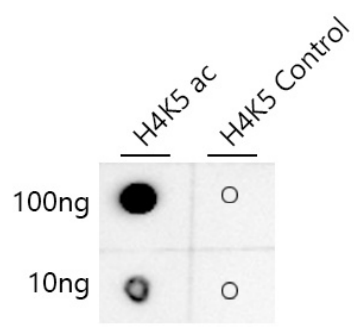
Western blot analysis of lysates from C6 cells, using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at 1:10000 dilution. C6 cells were treated with TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



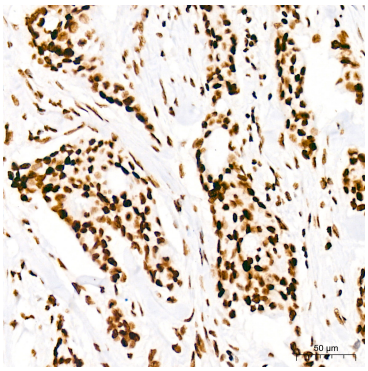
Chromatin immunoprecipitations were performed with cross-linked chromatin from Hela cells and Acetyl-Histone H4-K5 Rabbit mAb (A23080). The ChIP sequencing results indicate the enrichment pattern of Acetyl-Histone H4-K5 in selected genomic region and representative gene loci (GAPDH), as shown in figure.



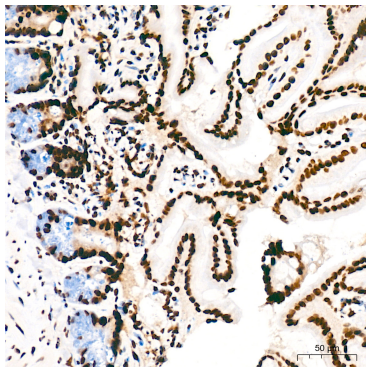
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H4-K5 antibody (A23080) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Dot-blot analysis of all sorts of peptides



Immunohistochemistry analysis of paraffin-



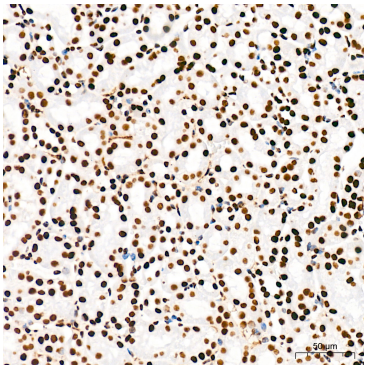
Immunohistochemistry analysis of paraffin-

Validation Data

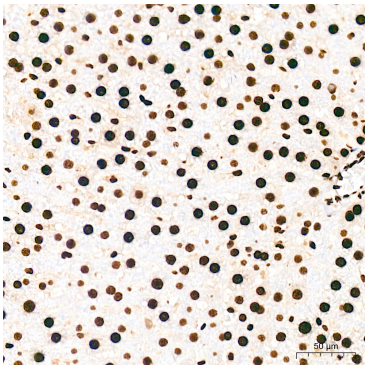
using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at 1:1000 dilution.

embedded Human breast cancer tissue using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

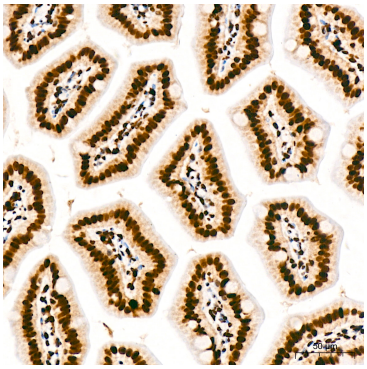
embedded Mouse intestin tissue using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



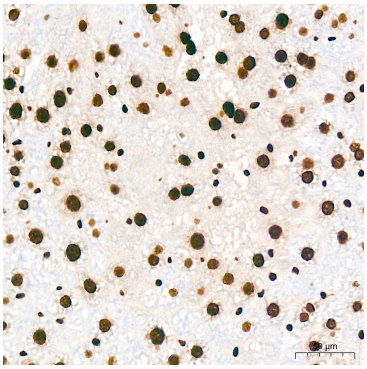
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



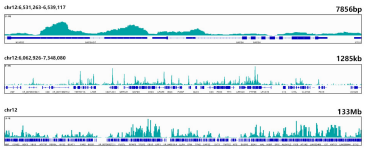
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat intestine tissue using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilution of 1:800 (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 liver tissue using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10^5 K562 cells with 1 µg Acetyl-Histone H4-K5 Rabbit mAb (A23080), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of Acetyl-Histone H4-K5 in representative gene loci (GAPDH), as shown in figure.