Acetyl-Histone H4-K8 Rabbit mAb

Catalog No.: A26921

Recombinant | 1 Publications

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Basic Information

Observed MW
11 kDa

Calculated MW
11 kDa

Category
Monoclonal Antibodies

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

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

Clone No.
ARC70730

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	1:12000 - 1:72000
IP	0.5 μg-4 μg antibody for 400 μg-800 μg extracts of whole cells
IHC-P	1:1000 - 1:10000
DB	1:500 - 1:2000
ChIP	3 μg antibody for 10 μg-15 μg of Chromatin
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

Contact

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Product Information

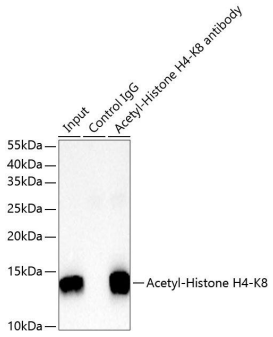
Source
Rabbit

Isotype
IgG

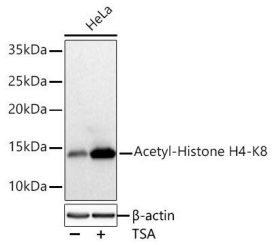
Purity
Affinity purification

Storage
Store at -20℃

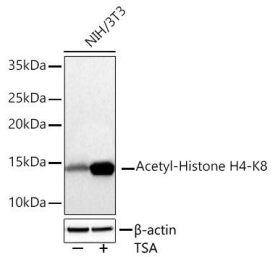
Validation Data



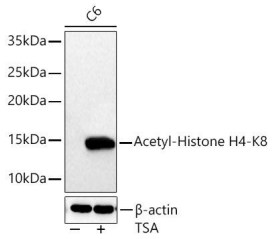
Immunoprecipitation of Acetyl-Histone H4-K8 from 600 µg extracts of HeLa cells treated with TSA (1µM, 18h) was performed using 2 µg of Acetyl-Histone H4-K8 Rabbit mAb (A26921). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at a dilution of 1: 5000.



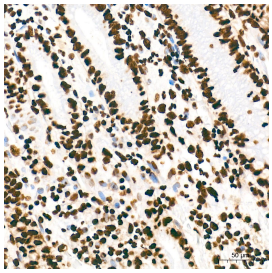
Western blot analysis of lysates from HeLa cells using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at 1:12000 dilution incubated overnight at 4℃. HeLa cells were treated with TSA (1 µM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.



Western blot analysis of lysates from NIH/3T3 cells using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at 1:12000 dilution incubated overnight at 4℃. NIH/3T3 cells were treated with TSA (1 µM) at 37℃ for 18 hours.
Secondary antibody: () at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.



Western blot analysis of lysates from C6 cells using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at 1:12000 dilution incubated overnight at 4℃. C6 cells were treated with TSA (1 µM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.

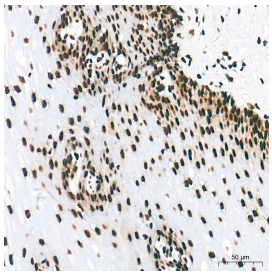


Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at a dilution of 1： 6000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

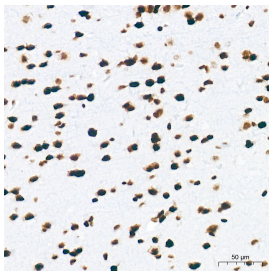
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Please visit http://abclonal.com for a complete listing of recommended products.



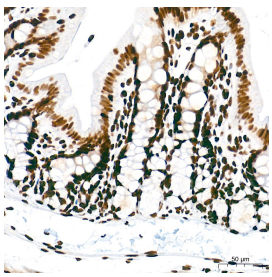
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at a dilution of 1：6000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



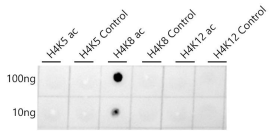
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at a dilution of 1：6000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



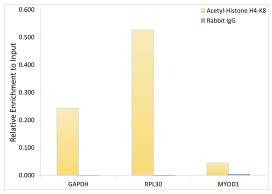
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at a dilution of 1：6000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



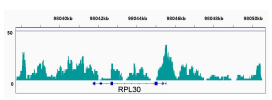
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at a dilution of 1：6000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



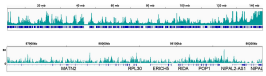
Dot-blot analysis of all sorts of peptides using Acetyl-Histone H4-K8 Rabbit mAb (A26921) at 1:1000 dilution.



Chromatin immunoprecipitation was performed with 10 μg of cross-linked chromatin from HeLa, using 3 μg of Acetyl-Histone H4-K8 Rabbit mAb (A26921) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



CUT&Tag was performed using the CUT&Tag Assay Kit（pAG-Tn5）V3 for Illumina (RK21513) from 10^5 HeLa cells treated with TSA(18h,1uM) with 1 μg of Acetyl-Histone H4-K8 Rabbit mAb (A26921), followed by incubation with Goat Anti-Rabbit IgG(H+L)(AS070). The results denote the enrichment pattern of Acetyl-Histone H4-K8 around RPL30 gene



CUT&Tag was performed using the CUT&Tag Assay Kit（pAG-Tn5）V3 for Illumina (RK21513) from 10^5 HeLa cells treated with TSA(18h,1uM) with 1 μg of Acetyl-Histone H4-K8 Rabbit mAb (A26921), followed by incubation with Goat Anti-Rabbit IgG(H+L)(AS070). The CUT&Tag results denote the enrichment pattern of Acetyl-Histone H4-K8 across chromosome 8 (upper panel) and the genomic region encompassing RPL30, a representative gene enriched in Acetyl-Histone H4-K8 (lower panel).