Acetyl-Histone H4-K12 Rabbit mAb

Catalog No.: A23683

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, ChIP, CUT&Tag, ELISA

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

Clone No.
ARC57733

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 1:1000 - 1:3000

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

IHC-P 1:500 - 1:1000

ChIP
5μg antibody for 5μg-10μg 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
8359/8370

Swiss-Prot
P62805

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

Synonyms
H4/I; H4C1; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4FI; H4-16; H4C11; H4C12; H4C13; H4C14; H4C15; H4C16; HIST1H4B; Acetyl-Histone H4-K12

Contact

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Product Information

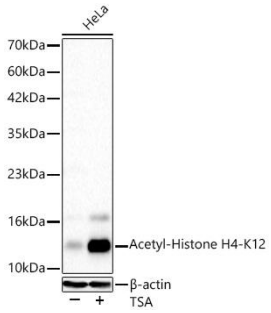
Source
Rabbit

Isotype
IgG

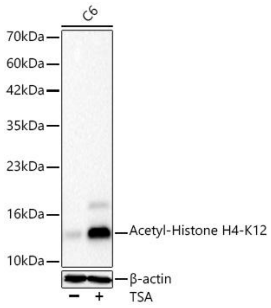
Purity
Affinity purification

Storage
Store at -20℃

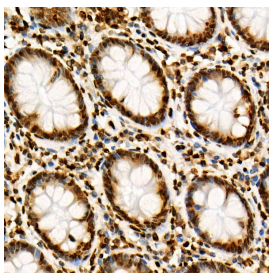
Validation Data



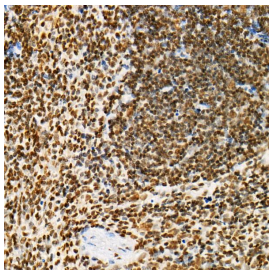
Western blot analysis of lysates from HeLa cells using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at 1:1000 dilution incubated overnight at 4℃. HeLa cells were treated with TSA (1 μM) at 37℃ for 18 hours after serum starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) 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: 10 s.



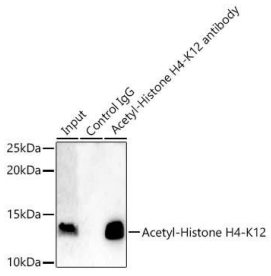
Western blot analysis of lysates from C6 cells using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at 1:1000 dilution incubated overnight at 4℃. C6 cells were treated with TSA (1 μM) at 37℃ for 18 hours after serum starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) 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: 10 s.



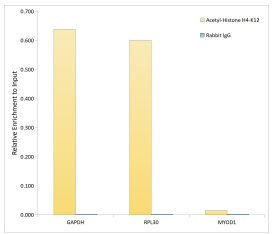
Immunohistochemistry analysis of paraffin-embedded Human colon using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



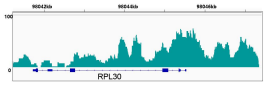
Immunohistochemistry analysis of paraffin-embedded Mouse spleen using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



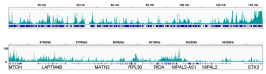
Immunoprecipitation analysis of 600 μg extracts of HeLa cells using 5 μg Acetyl-Histone H4-K12 Rabbit mAb (A23683). Western blot was performed from the immunoprecipitate using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilition of 1:10000.



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.



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-K12 Rabbit mAb (A23683), followed by incubation with Goat Anti-Rabbit IgG(H+L)(AS070). The results denote the enrichment pattern of Acetyl-Histone H3-K4 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-K12 Rabbit mAb (A23683), followed by incubation with Goat Anti-Rabbit IgG(H+L)(AS070). The CUT&Tag results denote the enrichment pattern of Acetyl-Histone H3-K4 across chromosome 8 (upper panel) and the genomic region encompassing RPL30, a representative gene enriched in Acetyl-Histone H3-K4 (lower panel).