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Acetyl-Histone H4-K12 Rabbit mAb

Catalog No.: A22754

Recombinant | 1 Publications

Basic Information

Observed MW

Calculated MW
11kDa

Category
Monoclonal Antibodies

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

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

Clone No.
ARC56881

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.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:100 - 1:500
DB	1:500 - 1:1000
ChIP	5μg antibody for 5μg-10μg 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
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

Contact

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Product Information

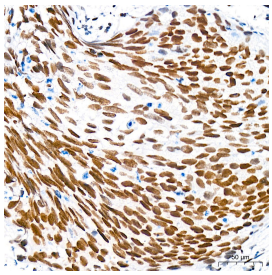
Source
Rabbit

Isotype
IgG

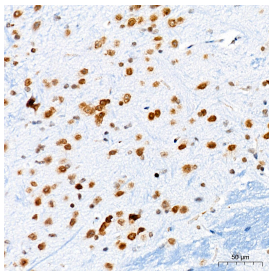
Purity
Affinity purification

Storage
Store at -20℃

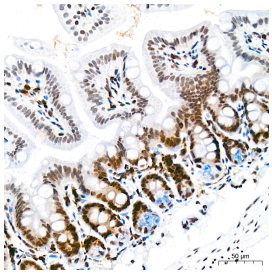
Validation Data



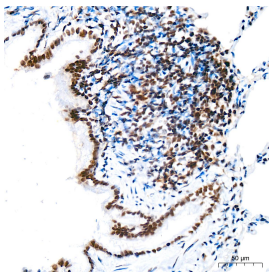
Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



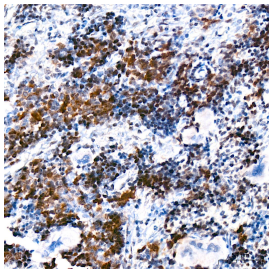
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



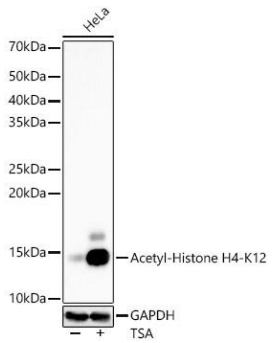
Immunohistochemistry analysis of paraffin-embedded Mouse intestin tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



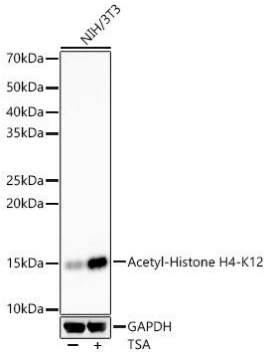
Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



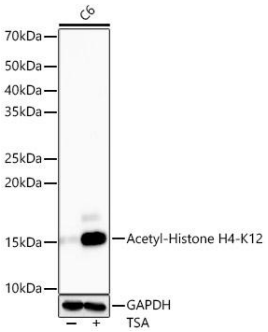
Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



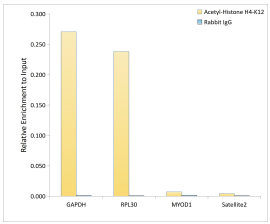
Western blot analysis of various lysates, using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at 1:1000 dilution. HeLa cells were treated with TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking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



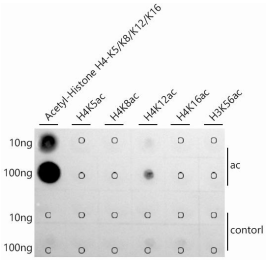
Western blot analysis of various lysates, using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at 1:1000 dilution. NIH/3T3 cells were treated with TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking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



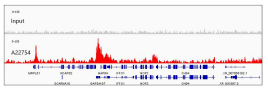
Western blot analysis of lysates from C6 cells, using Acetyl-Histone H4-K12 Rabbit mAb (A22754) at 1:1000 dilution. C6 cells were treated with TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking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



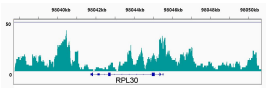
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H4-K12 antibody (A22754) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



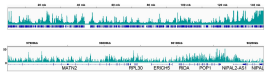
Dot-blot analysis of all sorts of peptides using Acetyl-Histone H4-K12 antibody (A22754) at 1:1000 dilution.



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.



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 (A22754), followed by incubation with Goat Anti-Rabbit IgG(H+L)(AS070). The results denote the enrichment pattern of Acetyl-Histone H4-K12 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 (A22754), followed by incubation with Goat Anti-Rabbit IgG(H+L)(AS070). The CUT&Tag results denote the enrichment pattern of Acetyl-Histone H4-K12 across chromosome 8 (upper panel) and the genomic region encompassing RPL30, a representative gene enriched in Acetyl-Histone H4-K12 (lower panel).