

A20735

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Acetyl-Histone H3-K18 Rabbit mAb

Catalog No.: A20735

Recombinant

Basic Information

Observed MW

17kDa

Calculated MW

15kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

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

Cross-Reactivity

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

CloneNo number

ARC53056

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 H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

Recommended Dilutions

DB 1:10000 - 1:100000

WB 1:500 - 1:1000

IHC-P 1:50 - 1:200

ChIP 5µg antibody for
5µg-10µg of Chromatin

CUT&Tag 10⁵ cells / 1 µg

ChIP-seq 1:50 - 1:200

Contact



www.abclonal.com

Immunogen Information

Gene ID

8290/8350

Swiss Prot

Q16695/P68431

Immunogen

A synthetic acetylated peptide around K18 of human Histone H3 (P68431).

Synonyms

H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; H3C1; Acetyl-Histone H3-K18

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

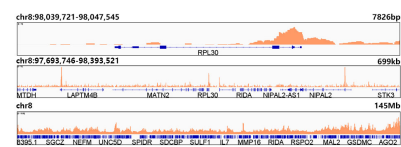
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

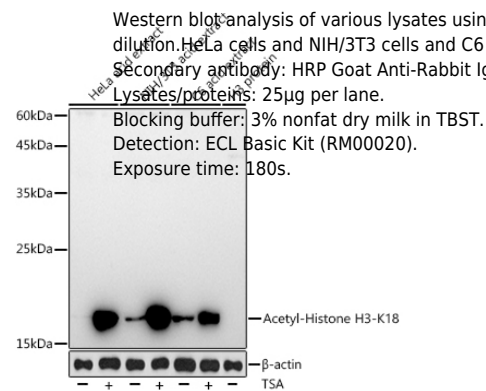
Validation Data



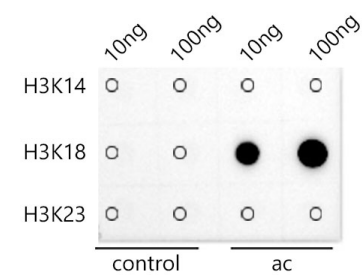
CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10⁵ K562 cells with 1 µg Acetyl-Histone H3-K18 Rabbit mAb (A20735), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of H3K18me1 in representative gene loci (RPL30), as shown in figure.



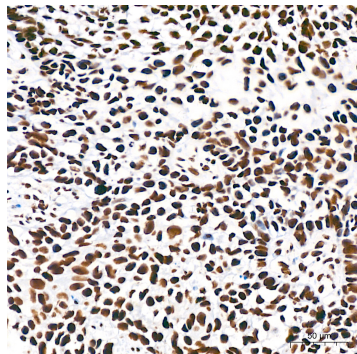
Chromatin immunoprecipitations were performed with cross-linked chromatin from 293T cells and Acetyl-Histone H3-K18 Rabbit mAb (A20735). The ChIP sequencing results indicate the enrichment pattern of Acetyl-Histone H3-K18 in selected genomic region and representative gene loci (RPL30), as shown in figure.



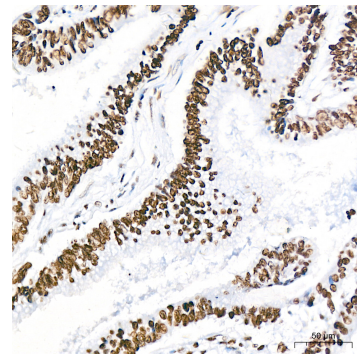
Validation Data



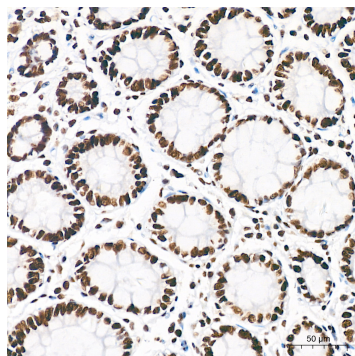
Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at 1:100000 dilution.



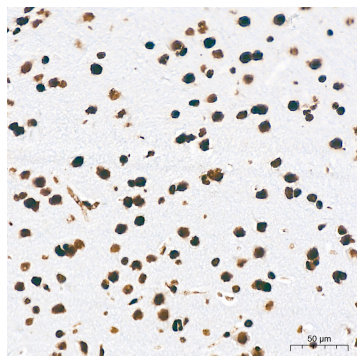
Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded human cervix cancer tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



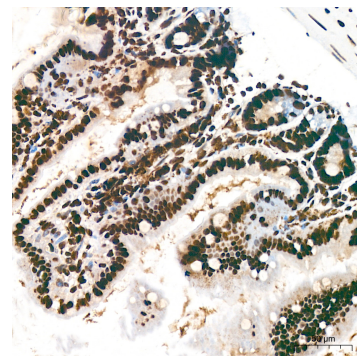
Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded human colon carcinoma tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



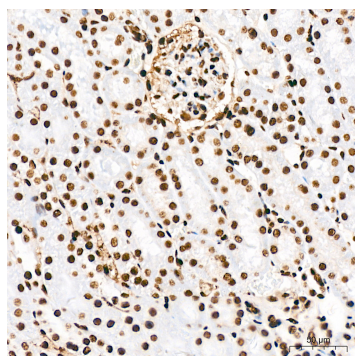
Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded human colon tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



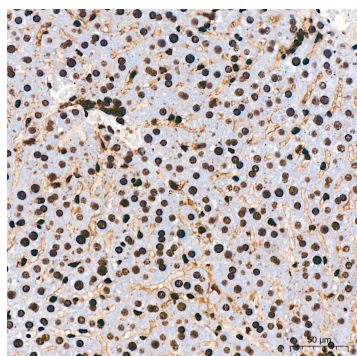
Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded mouse brain tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



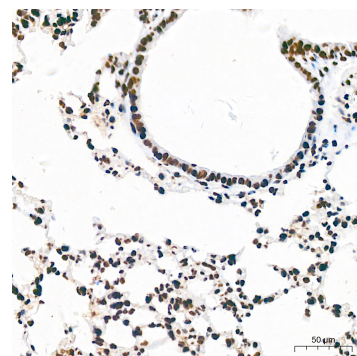
Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded mouse intestine tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded mouse kidney tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

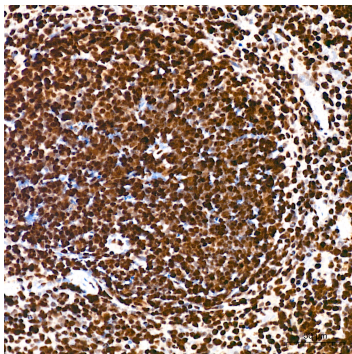


Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded mouse liver tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

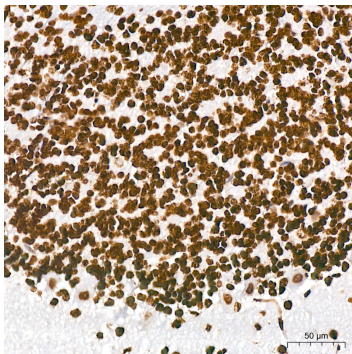


Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded mouse lung tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

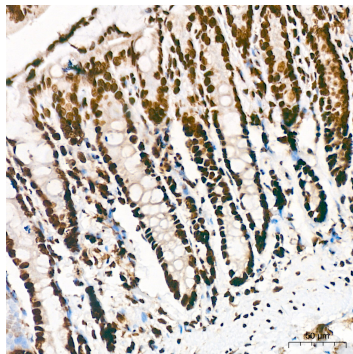
Validation Data



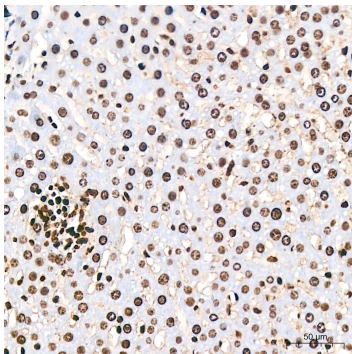
Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded mouse spleen tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



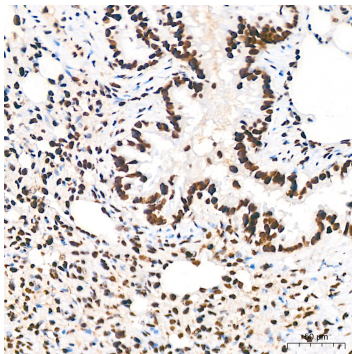
Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded rat brain tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



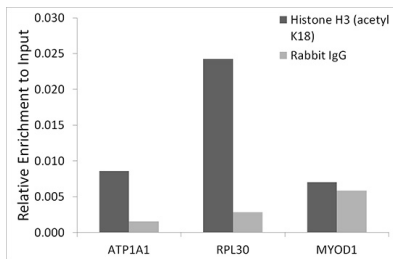
Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded rat colon tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded rat liver tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Acetyl-Histone H3-K18 in paraffin-embedded rat lung tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K18 Rabbit mAb (A20735) 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.