

# Acetyl-Histone H3-K18 Rabbit mAb

Catalog No.: A20735 **Recombinant**

## Basic Information

**Observed MW**

17kDa

**Calculated MW**

15kDa

**Category**

Primary antibody

**Applications**

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

**Cross-Reactivity**

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

**CloneNo number**

ARC53056

## Recommended Dilutions

**WB** 1:500 - 1:1000**DB** 1:10000 - 1:100000**IHC-P** 1:50 - 1:200**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.**ChIP** 5µg antibody for 5µg-10µg of Chromatin**ChIP-seq** 1:50 - 1:200**CUT&Tag** 10<sup>5</sup> cells /1 µg

## 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.

## Immunogen Information

**Gene ID**

8290/8350

**Swiss Prot**

Q16695/P68431

**Immunogen**

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

**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.

Contact

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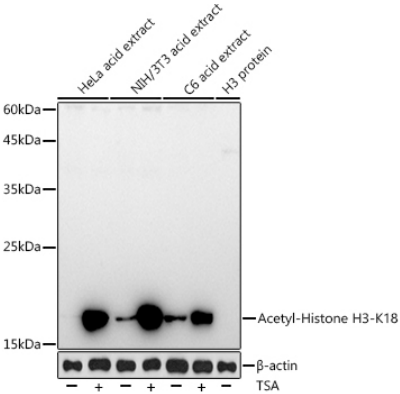
☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

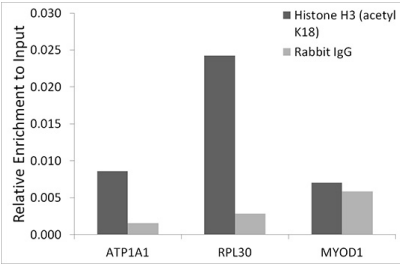
🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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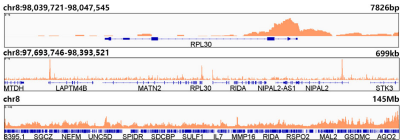
Validation Data



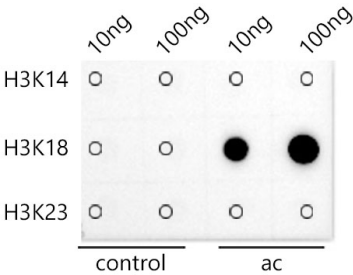
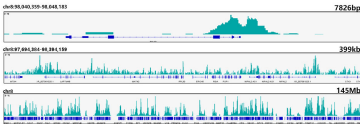
Western blot analysis of various lysates using Acetyl-Histone H3-K18 Rabbit mAb (A20680) at 1:1000 dilution. HeLa cells and NIH/3T3 cells and C6 cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



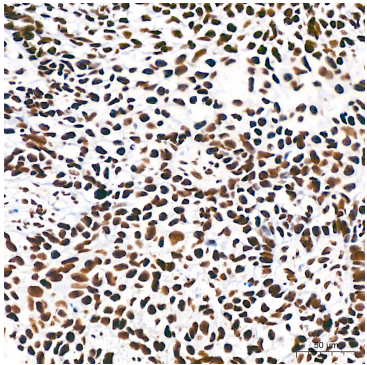
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K18 Rabbit mAb (A20735) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



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.



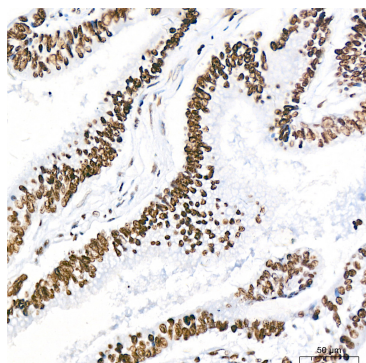
Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at 1:100000 dilution.



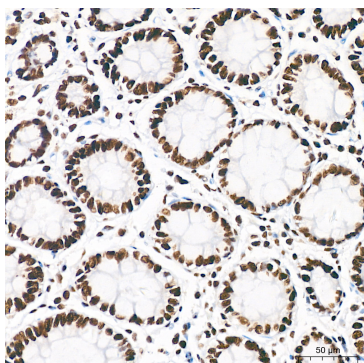
Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High

## Validation Data

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.

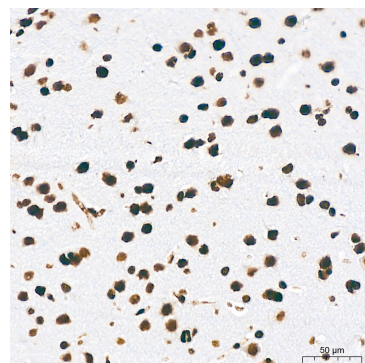


Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

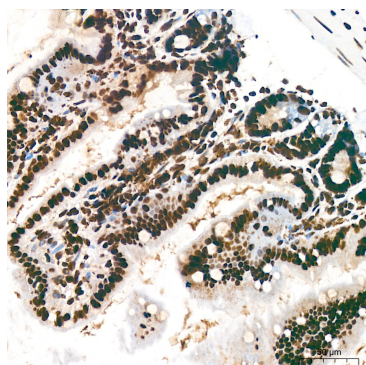


Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

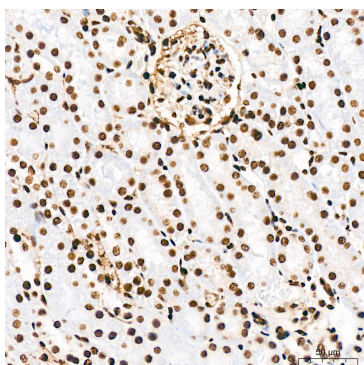
pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



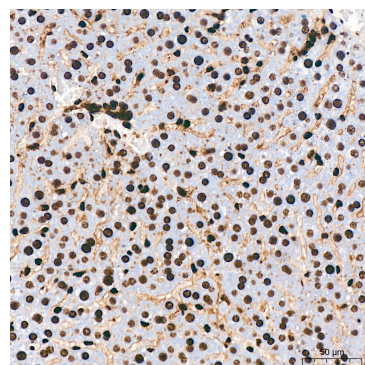
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



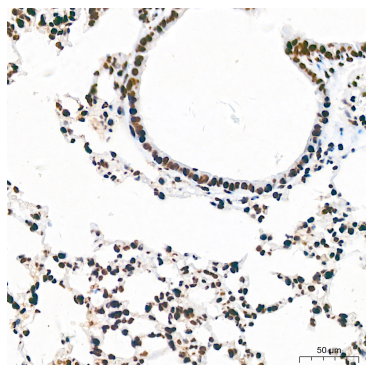
Immunohistochemistry analysis of paraffin-embedded Mouse intestine tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



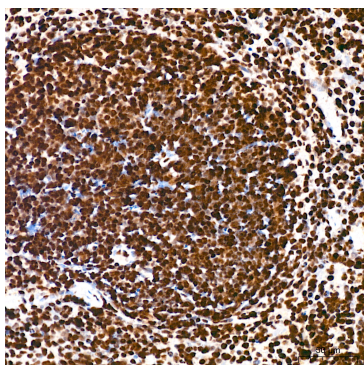
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



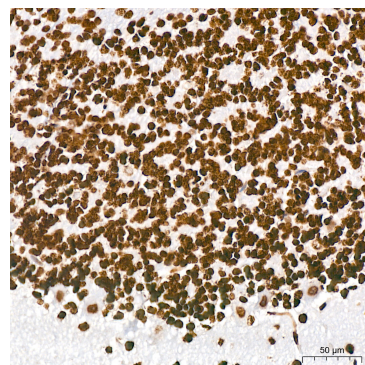
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse lung tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure

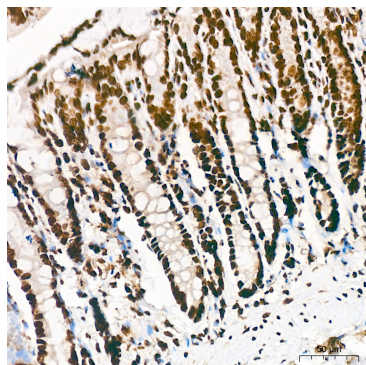


Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure

## Validation Data

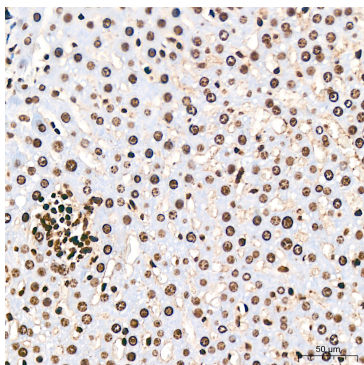
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antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



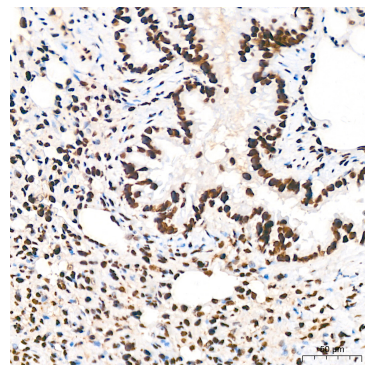
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Acetyl-Histone H3-K18 Rabbit mAb (A20735) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of 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 performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of 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 performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.