

# Acetyl-Histone H3-K4 Rabbit mAb

Catalog No.: A24340 **Recombinant**

## Basic Information

### Observed MW

17kDa

### Calculated MW

16kDa

### Category

Primary antibody

### Applications

WB,DB,IF/ICC,IP,ELISA,ChIP

### Cross-Reactivity

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

### CloneNo number

ARC62521

## Recommended Dilutions

**WB** 1:500 - 1:1000

**DB** 1:2000 - 1:5000

**IF/ICC** 1:50 - 1:200

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

**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

## Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

## Immunogen Information

### Gene ID

8290/ 8350

### Swiss Prot

Q16695/P68431

### Immunogen

A synthetic acetylated peptide around K4 of human Histone H3 (NP\_003520.1).

### Synonyms

H3.4; H3/g; H3FT; H3t; HIST3H3; Histone H3; HIST1H3A; Acetyl-Histone H3-K4

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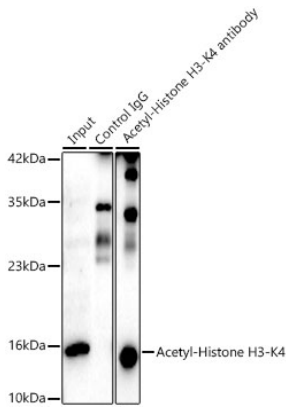
 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

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

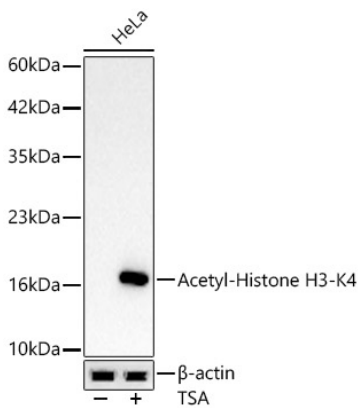
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## Validation Data

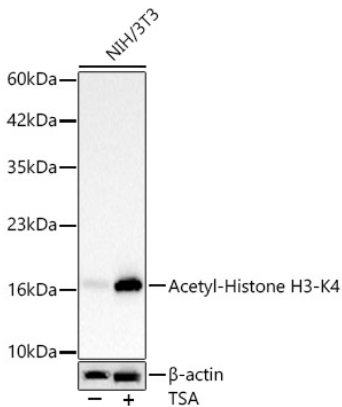
Immunoprecipitation analysis of 600ug extracts of HeLa TSA cells using 5ug Acetyl-Histone H3-K4 Rabbit mAb (A24340). Western blot was performed from the immunoprecipitate using Acetyl-Histone H3-K4 Rabbit mAb (A24340) at a dilution of 1:1000.



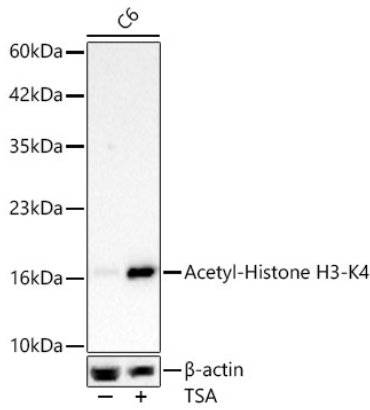
Western blot analysis of lysates from HeLa cells, using Acetyl-Histone H3-K4 Rabbit mAb (A24340) at 1:1000 dilution. HeLa cells were treated by TSA (1 uM) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



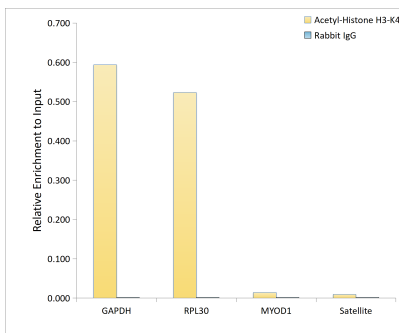
Western blot analysis of lysates from NIH/3T3 cells, using Acetyl-Histone H3-K4 Rabbit mAb (A24340) at 1:1000 dilution. NIH/3T3 cells were treated by TSA (1 uM) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



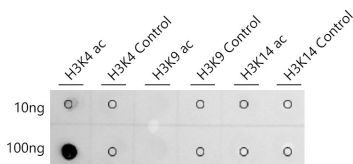
## Validation Data



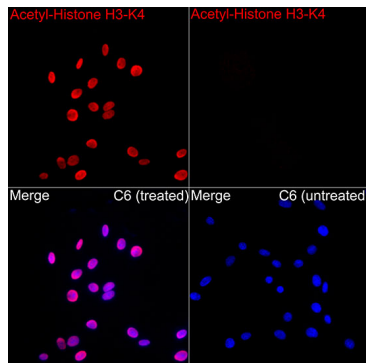
Western blot analysis of lysates from C6 cells, using Acetyl-Histone H3-K4 Rabbit mAb (A24340) at 1:1000 dilution. C6 cells were treated by TSA (1  $\mu$ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



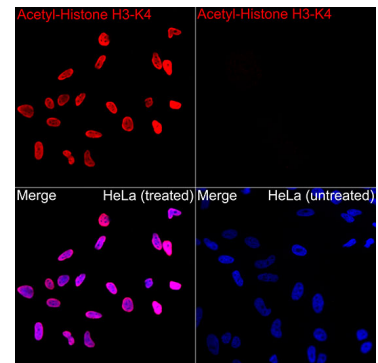
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K4 Rabbit mAb antibody (A24340) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K4 Rabbit mAb (A24340) at 1:3000 dilution.



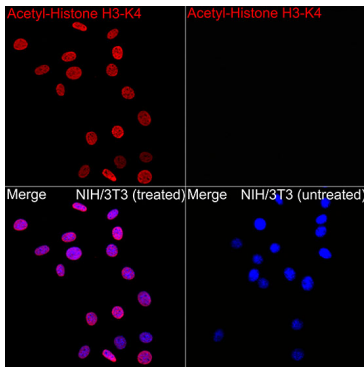
Immunofluorescence analysis of C6 TSA and C6 cells using Acetyl-Histone H3-K4 Rabbit mAb (A24340) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa TSA and HeLa cells using Acetyl-Histone H3-K4 Rabbit mAb (A24340) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

## Validation Data

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Immunofluorescence analysis of NIH-3T3 TSA and NIH-3T3 cells using Acetyl-Histone H3-K4 Rabbit mAb (A24340) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.