

A16078

Leader in Biomolecular Solutions for Life Science



# Acetyl-Histone H3-K4 Rabbit pAb

Catalog No.: A16078

3 Publications

## Basic Information

### Observed MW

17kDa

### Calculated MW

16kDa

### Category

Polyclonal Antibody

### Applications

WB,IF/ICC,ChIP,ELISA

### Cross-Reactivity

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

## 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.

## Recommended Dilutions

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

**IF/ICC** 1:50 - 1:100

**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

## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

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

### Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; Acetyl-Histone H3-K4

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

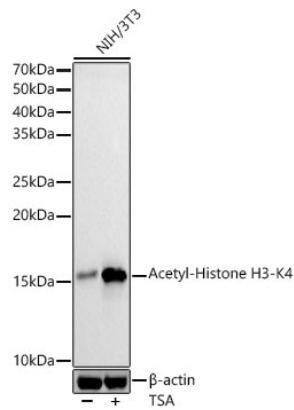
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Contact

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

## Validation Data



Western blot analysis of lysates from NIH/3T3 cells using Acetyl-Histone H3-K4 Rabbit pAb (A16078) at 1:400 dilution. NIH/3T3 cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours.

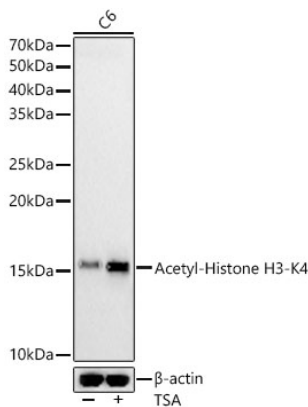
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25  $\mu$ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.



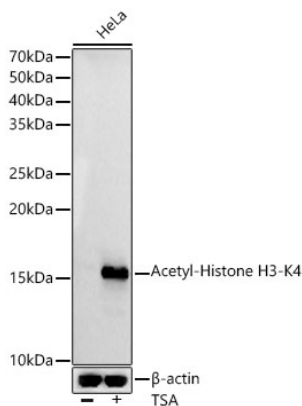
Western blot analysis of lysates from C6 cells using Acetyl-Histone H3-K4 Rabbit pAb (A16078) at 1:400 dilution. C6 cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25  $\mu$ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.



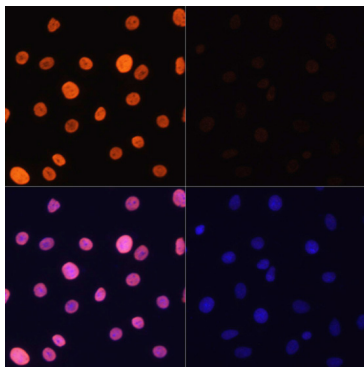
Western blot analysis of lysates from HeLa cells using Acetyl-Histone H3-K4 Rabbit pAb (A16078) at 1:400 dilution. HeLa cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25  $\mu$ g per lane.

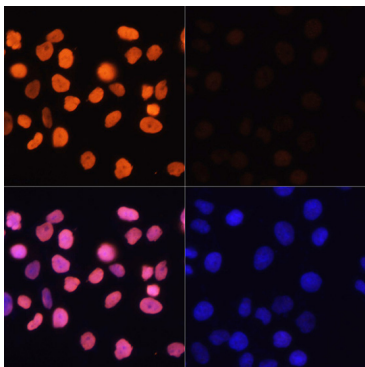
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

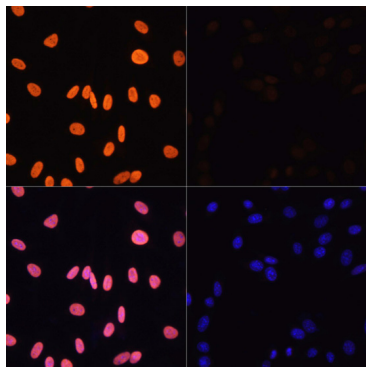
Exposure time: 60s.



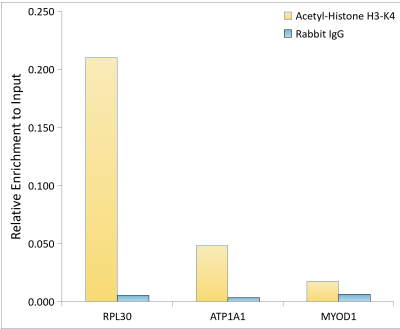
Immunofluorescence analysis of C6 cells using Acetyl-Histone H3-K4 Rabbit pAb (A16078) at dilution of 1:100.C6 cells were treated with TSA (1 uM) at 37°C for 18 hours. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using Acetyl-Histone H3-K4 Rabbit pAb (A16078) at dilution of 1:100.HeLa cells were treated with TSA (1 uM) at 37°C for 18 hours. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Acetyl-Histone H3-K4 Rabbit pAb (A16078) at dilution of 1:100.NIH/3T3 cells were treated with TSA (1 uM) at 37°C for 18 hours. Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K4 antibody (A16078) 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.