

# Acetyl-Histone H3-K9 Rabbit pAb

Catalog No.: A7255

84 Publications

## Basic Information

### Observed MW

17 kDa

### Calculated MW

15 kDa

### Category

Primary antibody

### Applications

WB, IP, IF/ICC, IHC-P, ChIP, ChIP-seq, 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 - 1:5000**IP** 0.5ug-4ug antibody for  
200ug-400ug extracts of  
whole cells**IF/ICC** 1:50 - 1:200**IHC-P** 1:50 - 1:200**ChIP** 5μg antibody for  
5μg-10μg of Chromatin**ChIP-seq** 1:20 - 1:50**ELISA** Recommended starting  
concentration is 1 μg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## 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-K9

## 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), pH7.3.

Contact

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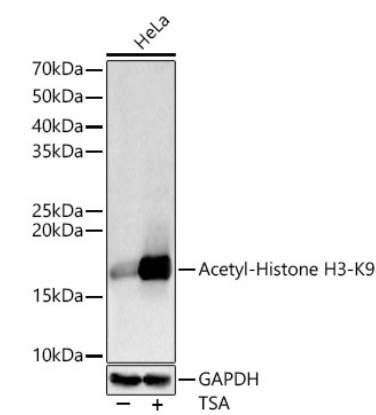
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✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

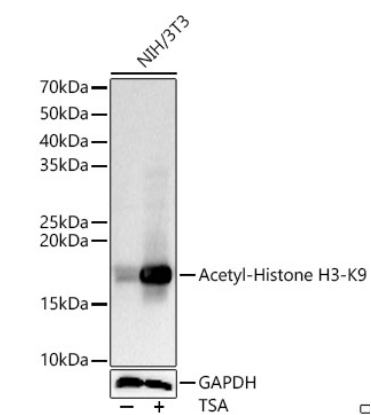
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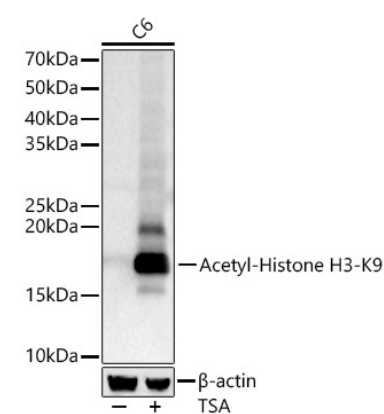
Validation Data



Western blot analysis of lysates from HeLa cells, using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at 1:1000 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: 10s.

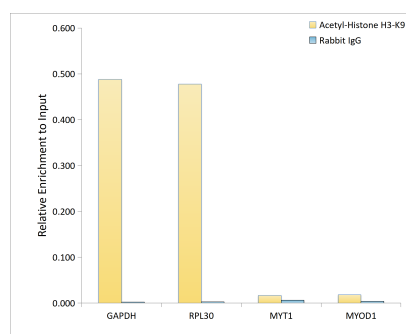


Western blot analysis of lysates from NIH/3T3 cells, using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at 1:1000 dilution. NIH/3T3 cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.

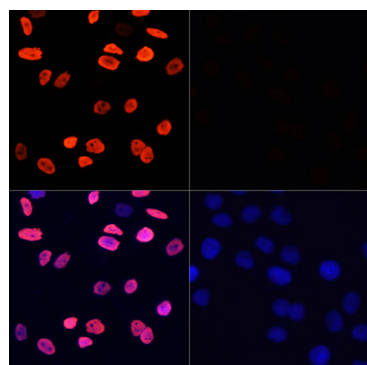


Western blot analysis of lysates from C6 cells, using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at 1:1000 dilution. C6 cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.

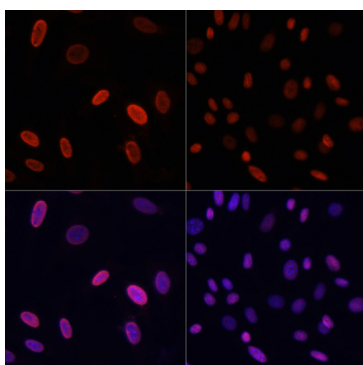
## Validation Data



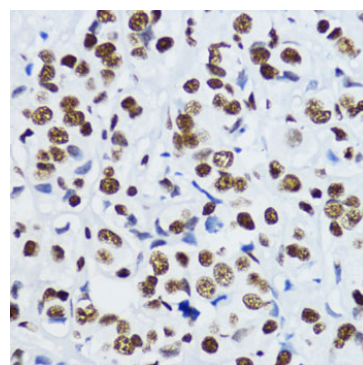
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K9 antibody (A7255) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



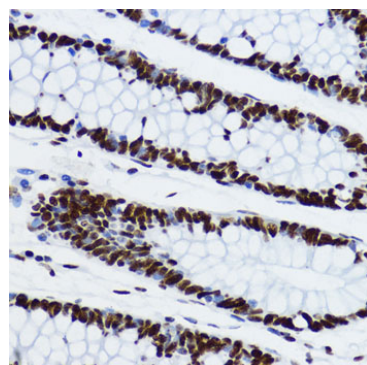
Immunofluorescence analysis of HeLa cells using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:100 (40x lens). HeLa cells were treated with TSA (1 uM) at 37°C for 18 hours (left). Blue: DAPI for nuclear staining.



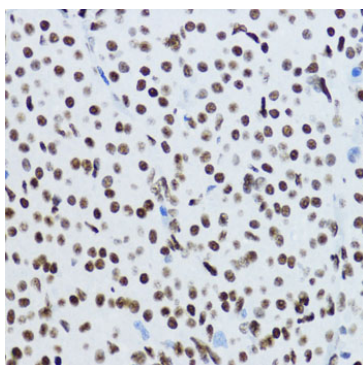
Immunofluorescence analysis of NIH/3T3 cells using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:100 (40x lens). NIH/3T3 cells were treated with TSA (1 uM) at 37°C for 18 hours (left). Blue: DAPI for nuclear staining.



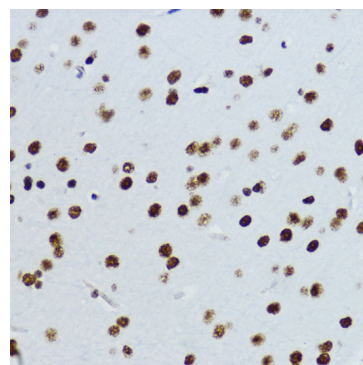
Immunohistochemistry analysis of paraffin-embedded Human mammary cancer using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat ovary using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.