

A7255

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# Acetyl-Histone H3-K9 Rabbit pAb

Catalog No.: A7255 **68 Publications**

## Basic Information

### Observed MW

17kDa

### Calculated MW

16kDa

### Category

Polyclonal Antibody

### Applications

WB,IHC-P,IF/ICC,IP,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

<b>WB</b>	1:500 - 1:1000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200
<b>IP</b>	0.5ug-4ug antibody for 200ug-400ug extracts of whole cells
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
<b>ChIP</b>	5µg antibody for 5µg-10µg of Chromatin
<b>ChIP-seq</b>	1:20 - 1:50

## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Histone H3 (NP\_003520.1).

### 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 with 0.05% proclin300,50% glycerol,pH7.3.

## Contact

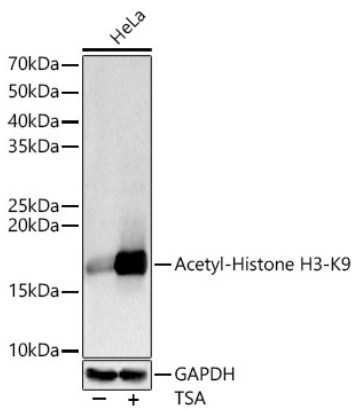
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[www.abclonal.com](http://www.abclonal.com)

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## Validation Data



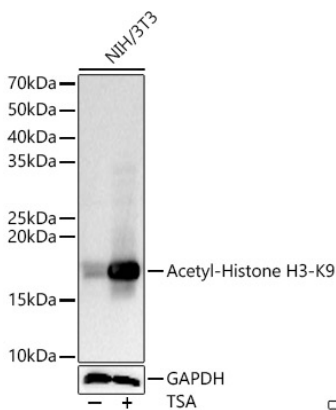
Western blot analysis of lysates from HeLa cells, using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at 1:1000 dilution. HeLa cells were treated by TSA (1  $\mu$ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 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 by TSA (1  $\mu$ M) at 37°C for 18 hours.

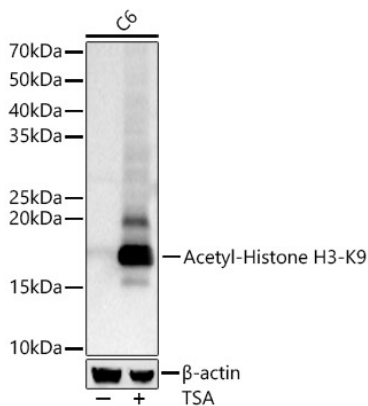
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 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 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.

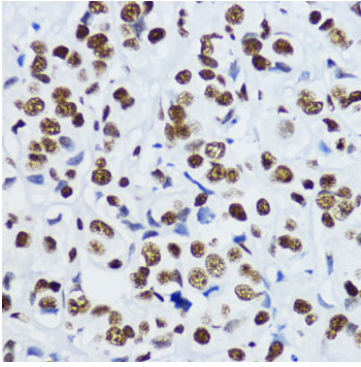
Lysates/proteins: 25 $\mu$ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

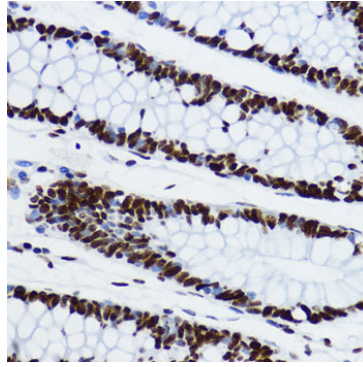
Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.

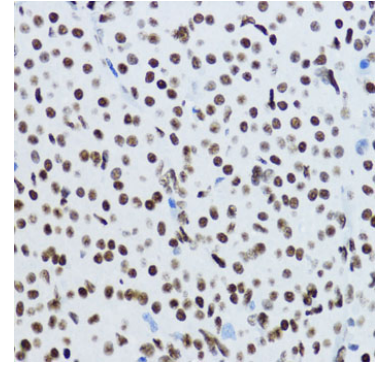
## Validation Data



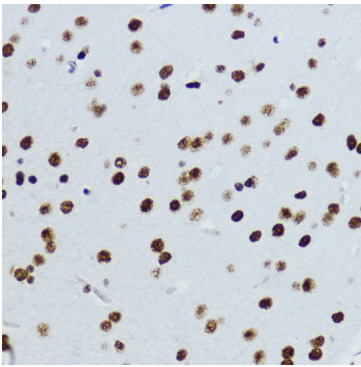
Immunohistochemistry analysis of paraffin-embedded Human mammary cancer using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



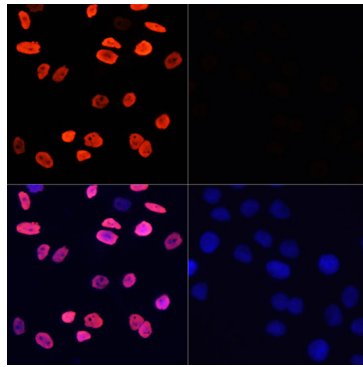
Immunohistochemistry analysis of paraffin-embedded Human colon using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



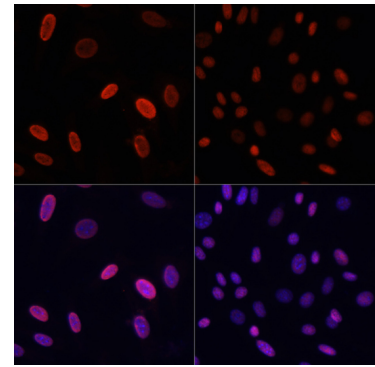
Immunohistochemistry analysis of paraffin-embedded Rat ovary using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



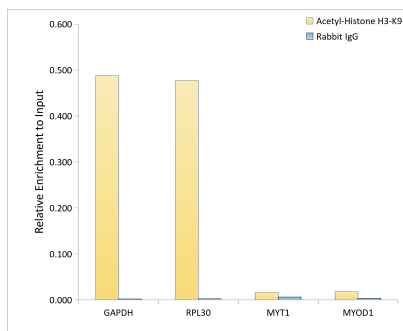
Immunohistochemistry analysis of paraffin-embedded Mouse brain using Acetyl-Histone H3-K9 Rabbit pAb (A7255) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



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



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.