

# TriMethyl-Histone H3-K9 Rabbit mAb

Catalog No.: A28981 **Recombinant**

## Basic Information

### Observed MW

17 kDa

### Calculated MW

15 kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,IHC-P,DB,ChIP,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC3347

## 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.

## Recommended Dilutions

**WB** 1:3000 - 1:20000

**IF/ICC** 1:200 - 1:2000

**IHC-P** 1:2000-8000

**DB** 1:1000 - 1:2000

**ChIP** 5 µg antibody for 10 µg -  
15 µg of Chromatin

**ELISA** Recommended starting  
concentration is 1 µg/mL.

Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ( $\geq 1:10000$ ) a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

This information is considered to be commercially sensitive.

### Synonyms

H3.4; H3/g; H3FT; H3t; HIST3H3; Histone H3; HIST1H3A; H3/A; H3FA; TriMethyl-Histone H3-K9

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

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

Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3

## Contact

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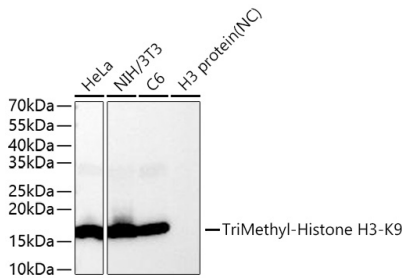
 | 400-999-6126

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

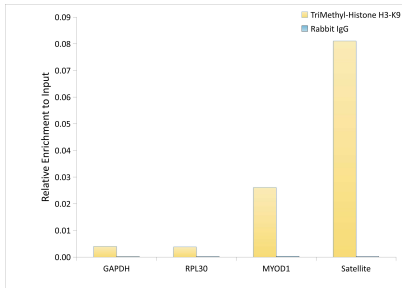
 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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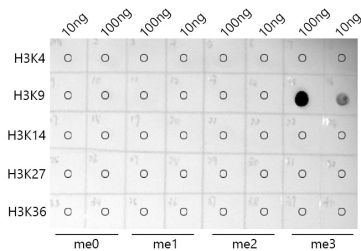
# Validation Data



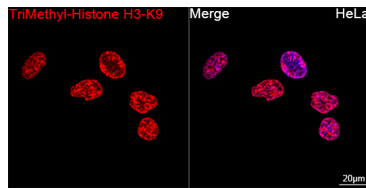
Western blot analysis of various lysates using TriMethyl-Histone H3-K9 Rabbit mAb (A28981) at 1:5000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Negative control (NC): H3 protein.  
 Exposure time: 1 s.



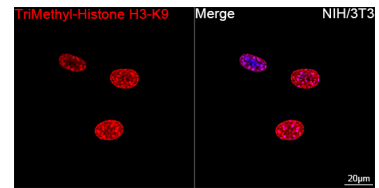
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HeLa cells, using 2 µg of TriMethyl-Histone H3-K9 Rabbit mAb(A28981) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



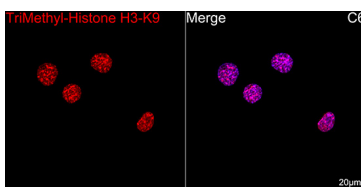
Dot-blot analysis of all sorts of peptides using TriMethyl-Histone H3-K9 Rabbit mAb (A28981) at 1:1000 dilution.



Confocal imaging of HeLa cells using TriMethyl-Histone H3-K9 Rabbit mAb (A28981, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



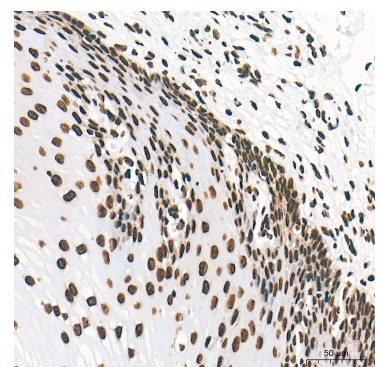
Confocal imaging of NIH/3T3 cells using TriMethyl-Histone H3-K9 Rabbit mAb (A28981, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells using TriMethyl-



Immunohistochemistry analysis of paraffin-

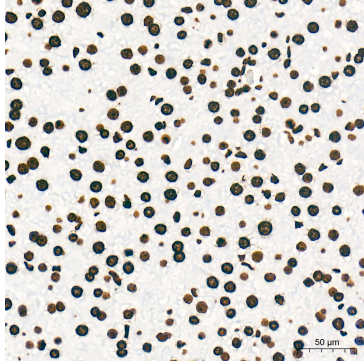


Immunohistochemistry analysis of paraffin-

## Validation Data

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Histone H3-K9 Rabbit mAb (A28981, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using TriMethyl-Histone H3-K9 Rabbit mAb (A28981) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

embedded Mouse colon tissue using TriMethyl-Histone H3-K9 Rabbit mAb (A28981) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

embedded Human esophagus tissue using TriMethyl-Histone H3-K9 Rabbit mAb (A28981) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.