

# TriMethyl-Histone H3-K9 Rabbit mAb

Catalog No.: A22295

Recombinant

6 Publications

## Basic Information

### Observed MW

17 kDa

### Calculated MW

15 kDa

### Category

Primary antibody

### Applications

WB, DB, IF/ICC, ELISA, ChIP, ChIP-seq, CUT&amp;Tag

### Cross-Reactivity

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

### CloneNo number

ARC54898

## 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** 1:1000 - 1:4000**DB** 1:1000 - 1:2000**IF/ICC** 1:200 - 1:800**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**ChIP-seq** 1:20 - 1:100**CUT&Tag** 10<sup>5</sup> cells /1 µg

## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

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

### Synonyms

H3.4; H3/g; H3FT; H3t; HIST3H3; Histone H3; HIST1H3A; TriMethyl-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 and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

---

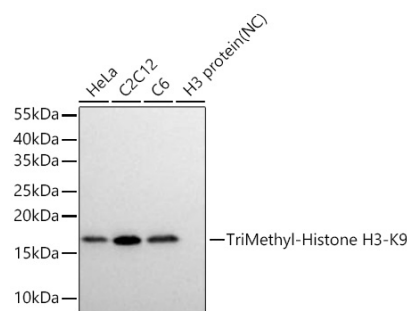
☎ | 400-999-6126

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

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

---

## Validation Data



Western blot analysis of various lysates using TriMethyl-Histone H3-K9 Rabbit mAb (A22295) at 1:1000 dilution incubated at room temperature for 1.5 hours.

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

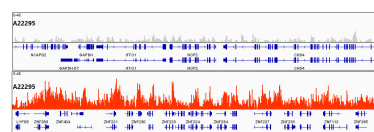
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

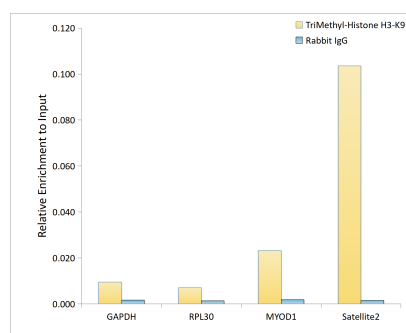
Detection: ECL Basic Kit (RM00020).

Negative control (NC): H3 protein.

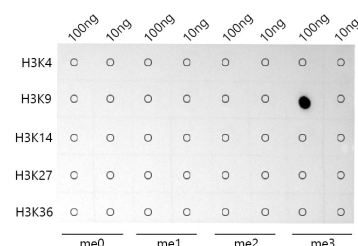
Exposure time: 45 s.



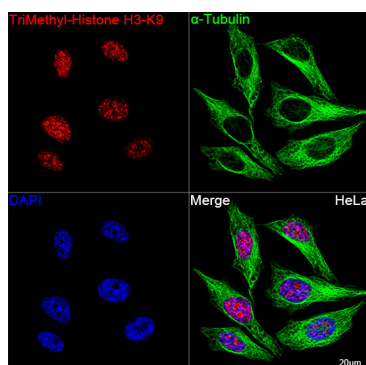
Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells, using TriMethyl-Histone H3-K9 Rabbit mAb (A22295). The ChIP sequencing results indicate the enrichment pattern of TriMethyl-Histone H3-K9 in selected genomic region and representative gene loci (ZNF404, GAPDH), as shown in figure.



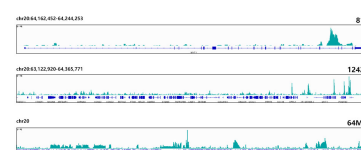
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using TriMethyl-Histone H3-K9 Rabbit mAb (A22295) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Dot-blot analysis of all sorts of peptides using TriMethyl-Histone H3-K9 Rabbit mAb (A22295) at 1:1000 dilution.



Confocal imaging of HeLa cells using TriMethyl-Histone H3-K9 Rabbit mAb (A22295, dilution 1:400) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflor® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10<sup>5</sup> K562 cells with 1 µg TriMethyl-Histone H3-K9 Rabbit mAb (A22295), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of TriMethyl-Histone H3-K9 in representative gene loci (MYT1), as shown in figure.

## Validation Data

---

used for nuclear staining (Blue). Objective:  
100x.