

# TriMethyl-Histone H3-K79 Rabbit mAb

Catalog No.: A25321 **Recombinant**

## Basic Information

### Observed MW

17kDa

### Calculated MW

16kDa

### Category

Primary antibody

### Applications

WB,ELISA,ChIP,ChIP-seq

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC3256

## 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

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

**ChIP** 3µg antibody for 5µg-10µg of Chromatin

**ChIP-seq** 3µg antibody for 5µg-10µg of Chromatin

## Contact

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## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

A synthetic trimethylated peptide around K79 of human histone H3 (NP\_003520.1).

### Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; TriMethyl-Histone H3-K79

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

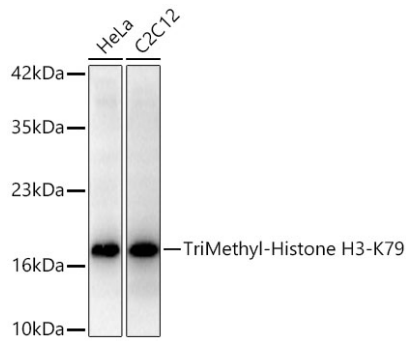
Affinity purification

### Storage

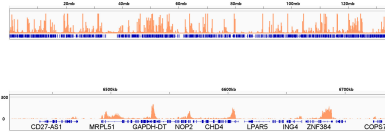
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

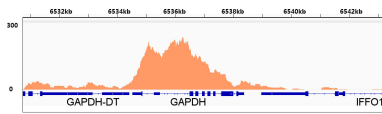
## Validation Data



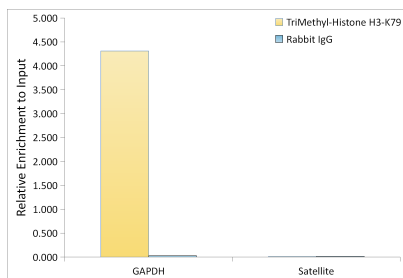
Western blot analysis of various lysates using TriMethyl-Histone H3-K79 Rabbit mAb (A25321) at 1:1000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates / proteins: 25 µg per lane.  
 Blocking buffer: 3 % nonfat dry milk in TBST.  
 Detection: ECL Enhanced Kit (RM00021).  
 Exposure time: 30s.



Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from HeLa cells using 5 µg of TriMethyl-Histone H3-K79 Rabbit mAb (A25321). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of TriMethyl-Histone H3-K79 across chromosome 12 (upper panel) and the genomic region encompassing GAPDH, a representative gene enriched in TriMethyl-Histone H3-K79 (lower panel).



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Chromatin immunoprecipitation was performed with cross-linked chromatin from HeLa cells, using TriMethyl-Histone H3-K79 Rabbit mAb (A25321) and rabbit IgG (AC042). The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram compares the ratio of the immunoprecipitated DNA versus the input.