

# DiMethyl-Histone H3-K79 Rabbit mAb

Catalog No.: A22142 **Recombinant**

## Basic Information

### Observed MW

17kDa

### Calculated MW

16kDa

### Category

Primary antibody

### Applications

WB,DB,ELISA,ChIP,ChIP-seq

### Cross-Reactivity

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

### CloneNo number

ARC54135

## Recommended Dilutions

**WB** 1:1000 - 1:5000

**DB** 1:1000 - 1:5000

**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** 1:50 - 1:200

## Contact

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## 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.

## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

A synthetic dimethylated peptide around K79 of human Histone H3-K79 (NP\_003520.1).

### Synonyms

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

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

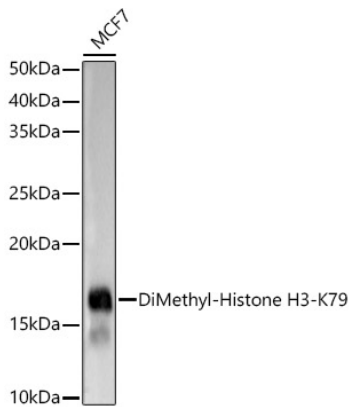
Affinity purification

### Storage

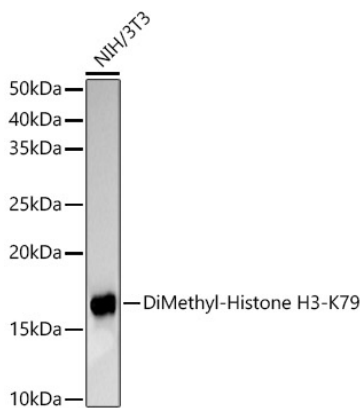
Store at -20°C. Avoid freeze / thaw cycles.

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

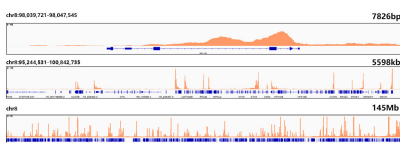
## Validation Data



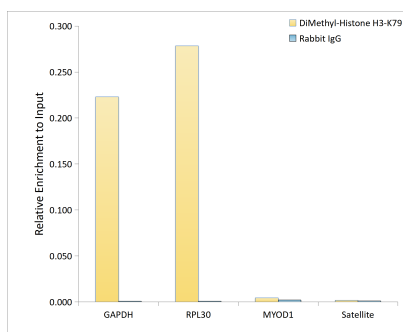
Western blot analysis of lysates from MCF7 cells, using DiMethyl-Histone H3-K79 Rabbit mAb (A22142) at 1:2000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 1s.



Western blot analysis of lysates from NIH/3T3 cells, using DiMethyl-Histone H3-K79 Rabbit mAb (A22142) at 1:2000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 10s.



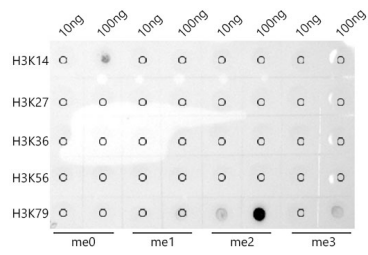
Chromatin immunoprecipitations were performed with cross-linked chromatin from 293T cells and DiMethyl-Histone H3-K79 Rabbit mAb (A22142). The ChIP sequencing results indicate the enrichment pattern of DiMethyl-Histone H3-K79 in selected genomic region and representative gene loci (RPL30), as shown in figure.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using DiMethyl-Histone H3-K79 antibody (A22142) 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.

## Validation Data

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Dot-blot analysis of all sorts of peptides using DiMethyl-Histone H3-K79 antibody (A22142) at 1:2000 dilution.