

# DiMethyl-Histone H3-K79 Rabbit pAb

Catalog No.: A2368SP **4 Publications**

## Basic Information

### Observed MW

17 kDa

### Calculated MW

15 kDa

### Category

Primary antibody

### Applications

WB,DB,IHC-P,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

**WB** 1:500 - 1:1000

**DB** 1:10000 - 1:30000

**IHC-P** 1:50 - 1:100

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

**ChIP-seq** 1:50 - 1:200

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

## Contact

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

## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

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

### 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.

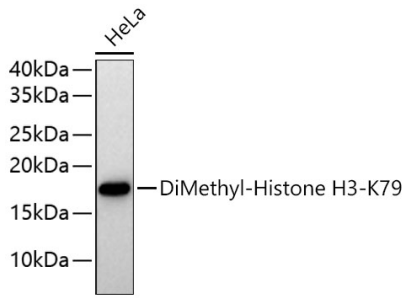
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.



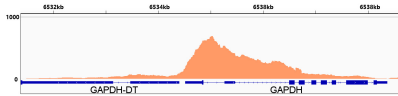
[www.abclonal.com.cn](http://www.abclonal.com.cn)

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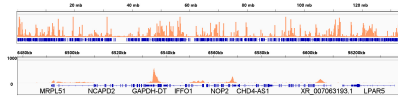
## Validation Data



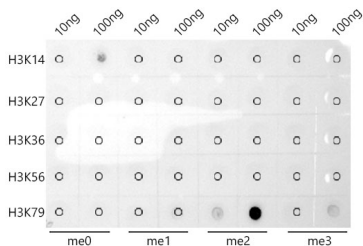
Western blot analysis of lysates from HeLa cells using DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP) at 1:5000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 30 s.



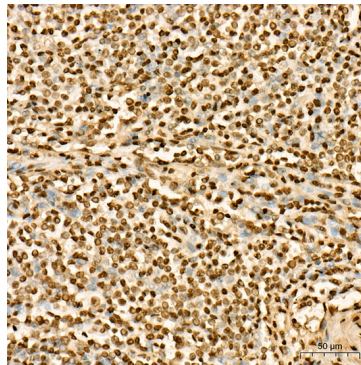
Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from 293T cells using 5 µg of DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of DiMethyl-Histone H3-K79 in the representative genomic region surrounding GAPDH gene.



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Dot-blot analysis of all sorts of peptides using DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP) at 1:10000 dilution.



Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.