

DiMethyl-Histone H3-K79 Rabbit mAb

Catalog No.: A22086 **Recombinant**

Basic Information

Observed MW

17kDa

Calculated MW

16kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

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

CloneNo number

ARC54084

Recommended Dilutions

DB 1:2000 - 1:20000

WB 1:2000 - 1:20000

IHC-P 1:500 - 1:1000

IF/ICC 1:50 - 1:200

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

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

ChIP-seq 1:50 - 1:200

Contact

 | www.abclonal.com

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

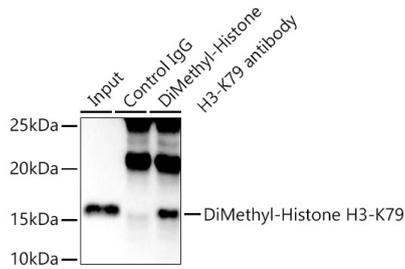
Affinity purification

Storage

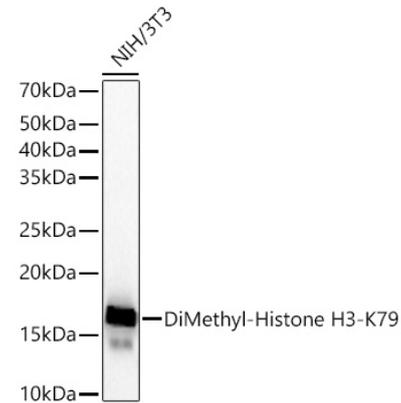
Store at -20°C. Avoid freeze / thaw cycles.

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

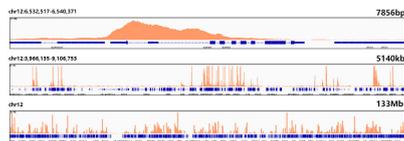
Validation Data



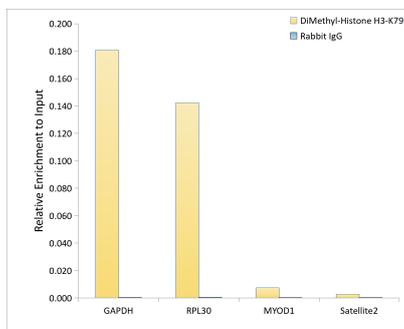
Immunoprecipitation analysis of 300 µg extracts of 293F cells using 3 µg DiMethyl-Histone H3-K79 antibody (A22086). Western blot was performed from the immunoprecipitate using DiMethyl-Histone H3-K79 antibody (A22086) at a dilution of 1:20000.



Western blot analysis of lysates from NIH/3T3 cells, using DiMethyl-Histone H3-K79 Rabbit mAb (A22086) at 1:20000 dilution. Secondary antibody: HRP 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: 30s.

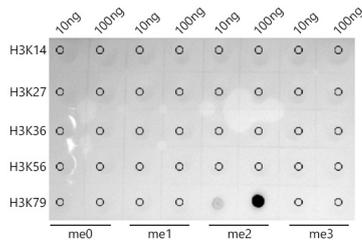


Chromatin immunoprecipitations were performed with cross-linked chromatin from 293T cells and DiMethyl-Histone H3-K79 Rabbit mAb (A22086). The ChIP sequencing results indicate the enrichment pattern of DiMethyl-Histone H3-K79 in selected genomic region and representative gene loci (GAPDH), as shown in figure.

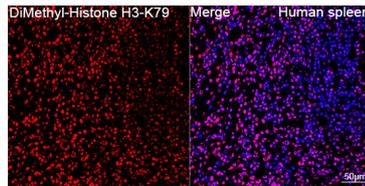


Chromatin immunoprecipitation analysis of extracts of HeLa cells, using DiMethyl-Histone H3-K79 Rabbit mAb antibody (A22086) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

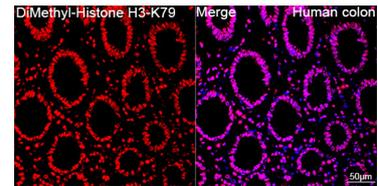
Validation Data



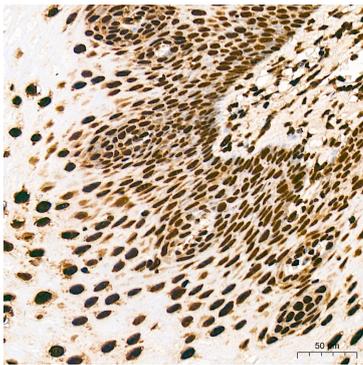
Dot-blot analysis of all sorts of peptides using DiMethyl-Histone H3-K79 antibody (A22086) at 1:20000 dilution.



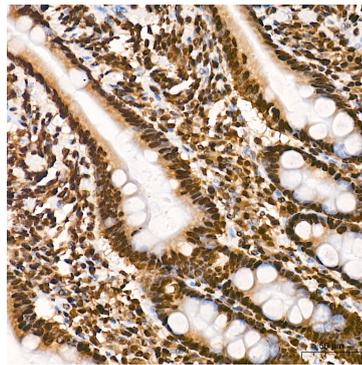
Confocal imaging of paraffin-embedded Human spleen tissue using DiMethyl-Histone H3-K79 Rabbit mAb (A22086, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



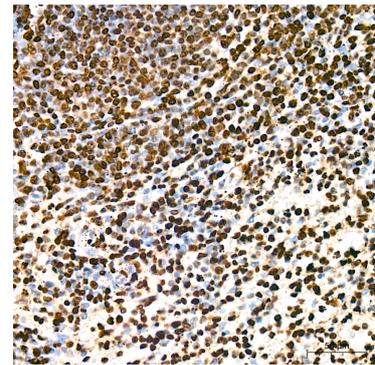
Confocal imaging of paraffin-embedded Human colon tissue using DiMethyl-Histone H3-K79 Rabbit mAb (A22086, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



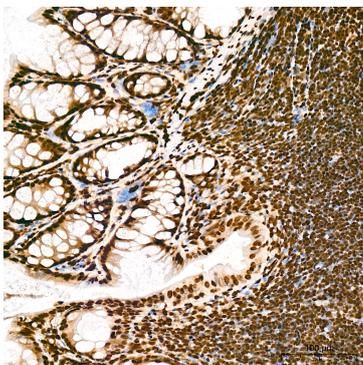
Immunohistochemistry analysis of DiMethyl-Histone H3-K79 in paraffin-embedded human esophagus tissue using DiMethyl-Histone H3-K79 Rabbit mAb (A22086) at a dilution of 1:600 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



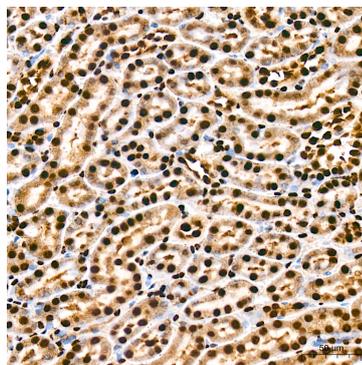
Immunohistochemistry analysis of DiMethyl-Histone H3-K79 in paraffin-embedded human small intestine tissue using DiMethyl-Histone H3-K79 Rabbit mAb (A22086) at a dilution of 1:600 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



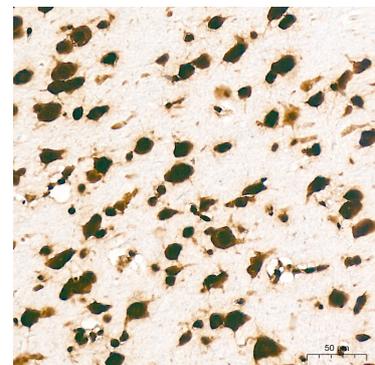
Immunohistochemistry analysis of DiMethyl-Histone H3-K79 in paraffin-embedded human spleen tissue using DiMethyl-Histone H3-K79 Rabbit mAb (A22086) at a dilution of 1:600 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of DiMethyl-Histone H3-K79 in paraffin-embedded mouse colon tissue



Immunohistochemistry analysis of DiMethyl-Histone H3-K79 in paraffin-embedded mouse kidney tissue



Immunohistochemistry analysis of DiMethyl-Histone H3-K79 in paraffin-embedded rat brain tissue using DiMethyl-

Validation Data

using DiMethyl-Histone H3-K79 Rabbit mAb (A22086) at a dilution of 1:600 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

using DiMethyl-Histone H3-K79 Rabbit mAb (A22086) at a dilution of 1:600 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Histone H3-K79 Rabbit mAb (A22086) at a dilution of 1:600 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.