DiMethyl-Histone H3-K79 Rabbit pAb

Catalog NO.: A2368SP **4 Publications**

Basic Information

Observed MW
17 kDa

Calculated MW
15 kDa

Category
Methylated Antibodies

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

Cross-Reactivity
Human, Mouse, Rat, Other (Wide Range Predicted)

Conjugation
Unconjugated

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

Immunogen Information

WB 1:1000 - 1:5000

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

IF/ICC 1:200 - 1:400

IF-P 1:200 - 1:2000

IHC-P 1:100 - 1:400

DB 1:10000 - 1:30000

ChIP 5 μg antibody for 10 μg - 15 μg of Chromatin

ChIP-seq 5 μg antibody for 10 μg of Chromatin

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (⩾1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

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

Contact

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Product Information

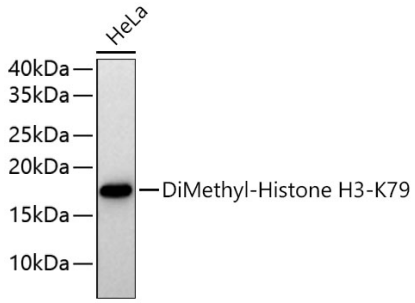
Source
Rabbit

Isotype
IgG

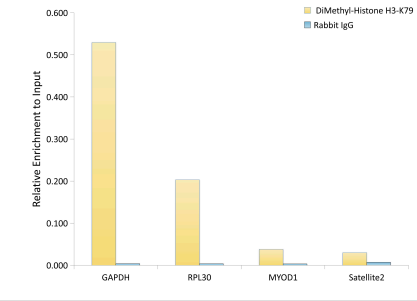
Purification
Affinity purification

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.

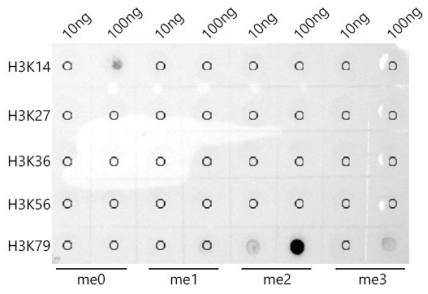
Validation Data



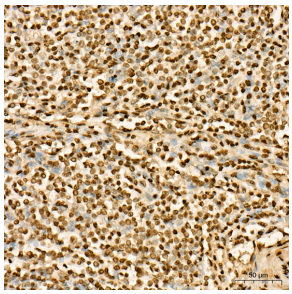
Western blot analysis of lysates from HeLa cells using DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry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



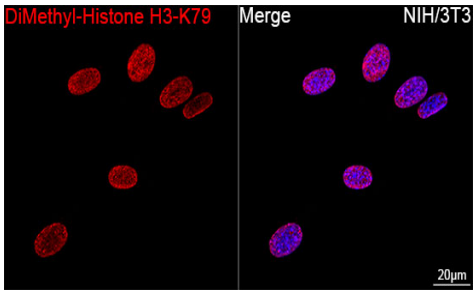
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HeLa cells, using 5 µg of DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP) and Rabbit IgG isotype control (AC042) . The amount of immunoprecipitated DNA was checked by quantitative PCR. The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



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

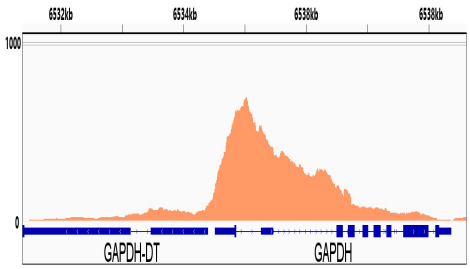


Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

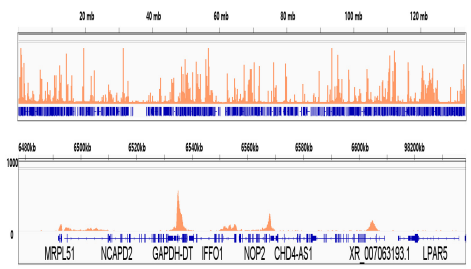


Confocal imaging of NIH/3T3 cells using DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

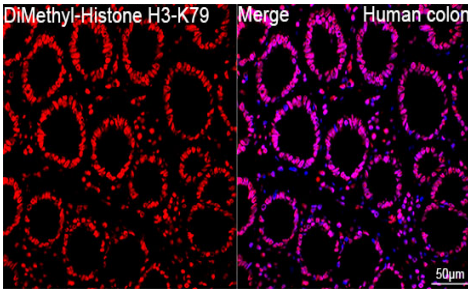
Validation Data



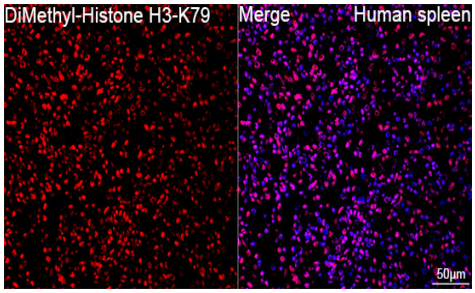
Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from 293T cells using 5 µg of DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern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



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 across chromosome 12 (upper panel) and the genomic region encompassing , a representative gene enriched in DiMethyl-Histone H3-K79 (lower panel).



Confocal imaging of paraffin-embedded Human colon tissue using DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Human spleen tissue using DiMethyl-Histone H3-K79 Rabbit pAb (A2368SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.