A2368

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DiMethyl-Histone H3-K79 Rabbit pAb

Catalog No.: A2368 **3 Publications**

Basic Information

Observed MW
17kDa

Calculated MW
16kDa

Category
Mouse Monoclonal Antibody

Applications
WB,IHC-P,IF/ICC,IP,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
IHC-P	1:50 - 1:100
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ChIP	5μg antibody for 5μg-10μg of Chromatin
ChIP-seq	1:50 - 1:200

Contact

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Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
A synthetic dimethylated peptide around K79 of human Histone H3 (NP_003520.1).

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

Product Information

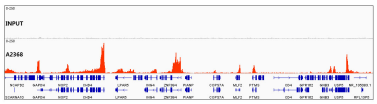
Source
Rabbit

Isotype
IgG

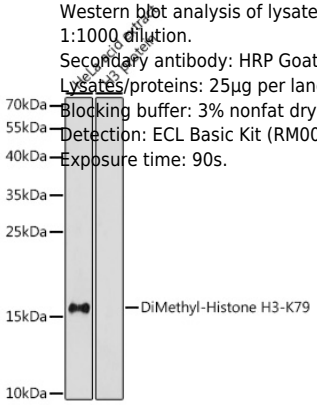
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

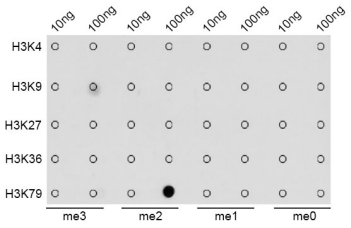
Validation Data



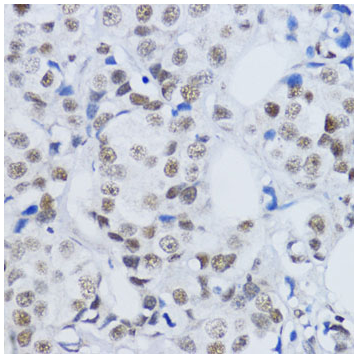
Chromatin immunoprecipitations were performed with cross-linked chromatin from K-562 cells and DiMethyl-Histone H3-K79 Rabbit pAb (A2368). The ChIP sequencing results indicate the enrichment pattern of DiMethyl-Histone H3-K79 in selected genomic region and representative gene loci (GAPDH), as shown in figure.



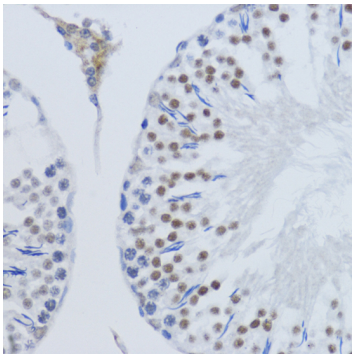
Western blot analysis of lysates from HeLa cells, using DiMethyl-Histone H3-K79 Rabbit pAb (A2368) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



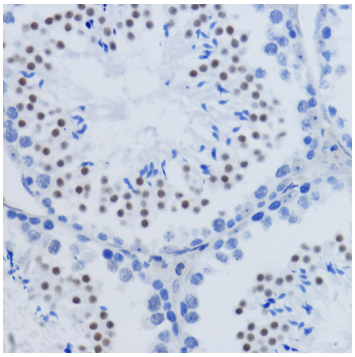
Dot-blot analysis of all sorts of methylation peptides using DiMethyl-Histone H3-K79 antibody (A2368).



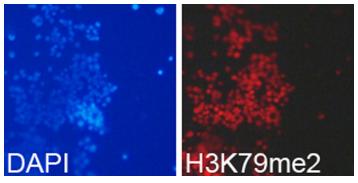
Immunohistochemistry analysis of DiMethyl-Histone H3-K79 in paraffin-embedded human mammary cancer using DiMethyl-Histone H3-K79 Rabbit pAb (A2368) at dilution of 1:200 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of DiMethyl-Histone H3-K79 in paraffin-embedded rat testis using DiMethyl-Histone H3-K79 Rabbit pAb (A2368) at dilution of 1:200 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of DiMethyl-

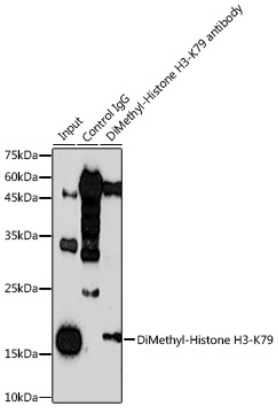


Immunofluorescence analysis of 293T cells

Validation Data

Histone H3-K79 in paraffin-embedded mouse testis using DiMethyl-Histone H3-K79 Rabbit pAb (A2368) at dilution of 1:200 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

using DiMethyl-Histone H3-K79 Rabbit pAb (A2368). Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg DiMethyl-Histone H3-K79 antibody (A2368). Western blot was performed from the immunoprecipitate using DiMethyl-Histone H3-K79 antibody (A2368) at a dilution of 1:1000.

Chromatin immunoprecipitation analysis of extracts of MCF7 cells, using DiMethyl-Histone H3-K79 antibody (A2368) 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.