

DiMethyl-Histone H3-K9 Rabbit mAb

Catalog No.: A26196 **Recombinant**

Basic Information

Observed MW

17kDa

Calculated MW

16kDa

Category

Primary antibody

Applications

WB,DB,IHC-P,ELISA,ChIP

Cross-Reactivity

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

CloneNo number

ARC68260

Recommended Dilutions

WB 1:500 - 1:1000

DB 1:500 - 1:1000

IHC-P 1:100 - 1:500

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

ChIP 2µg antibody for 5µg-10µg of Chromatin

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 K9 of human Histone H3 (NP_003520.1).

Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; DiMethyl-Histone H3-K9

Product Information

Source

Rabbit

Isotype

IgG

Purification

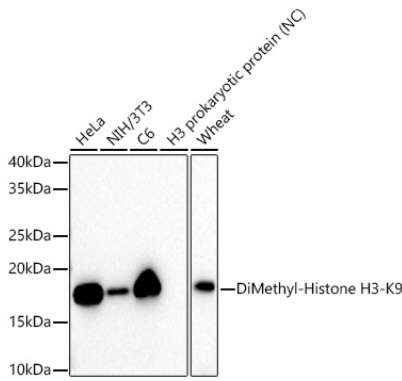
Affinity purification

Storage

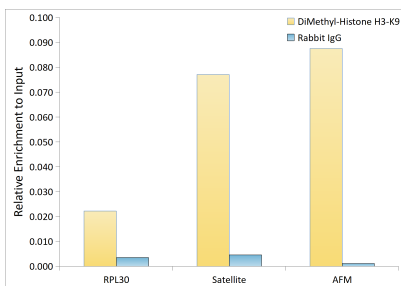
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

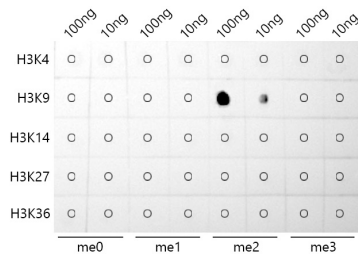
Validation Data



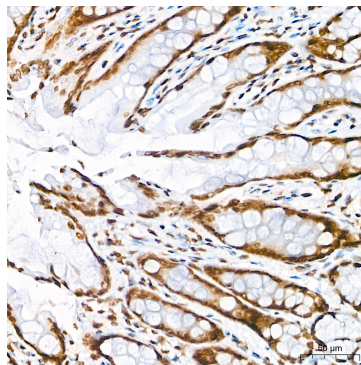
Western blot analysis of various lysates using DiMethyl-Histone H3-K9 Rabbit mAb (A26196) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): H3 prokaryotic protein. Exposure time: 30s.



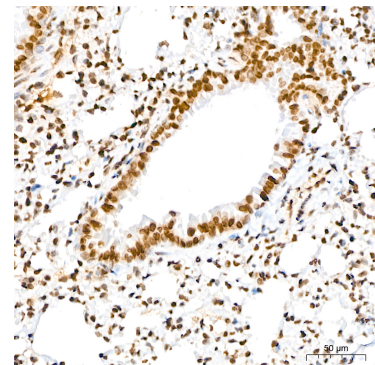
Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from HeLa cells, using 3 µg of DiMethyl-Histone H3-K9 Rabbit mAb (A26196) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram 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-K9 Rabbit mAb.

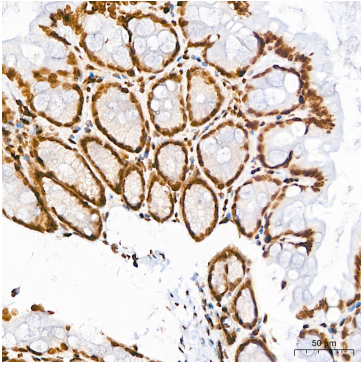


Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using DiMethyl-Histone H3-K9 Rabbit mAb (A26196) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.

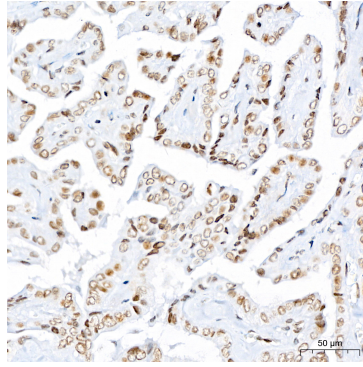


Immunohistochemistry analysis of paraffin-embedded Mouse lung tissue using DiMethyl-Histone H3-K9 Rabbit mAb (A26196) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using DiMethyl-Histone H3-K9 Rabbit mAb (A26196) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using DiMethyl-Histone H3-K9 Rabbit mAb (A26196) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.