

A2356

Leader in Biomolecular Solutions for Life Science



DiMethyl-Histone H3-K4 Rabbit pAb

Catalog No.: A2356

23 Publications

Basic Information

Observed MW

17kDa

Calculated MW

16kDa

Category

Mouse Monoclonal Antibody

Applications

WB, IHC-P, IF/ICC, 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 - 1:200
IF/ICC	1:50 - 1:200
ChIP	5.5µg antibody for 5µg-10µg of Chromatin
ChIP-seq	1:50 - 1:200

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human histone H3 (NP_003520.1).

Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; DiMethyl-Histone H3-K4

Contact



www.abclonal.com

Product Information

Source
Rabbit

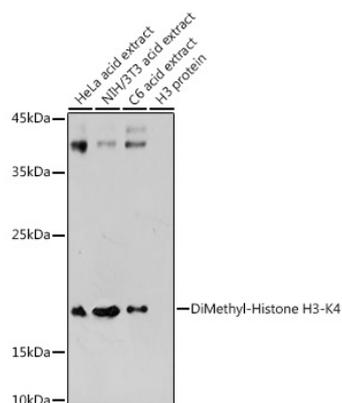
Isotype
IgG

Purification
Affinity purification

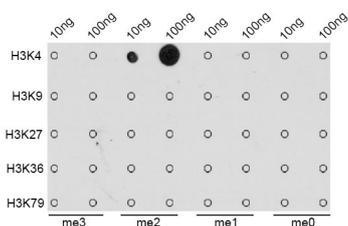
Storage

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

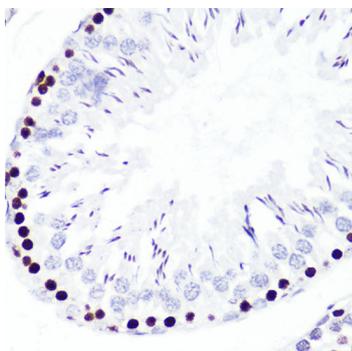
Validation Data



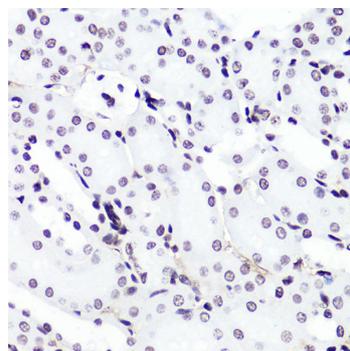
Western blot analysis of various lysates using DiMethyl-Histone H3-K4 Rabbit pAb (A2356) at 1:1000 dilution.
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 1s.



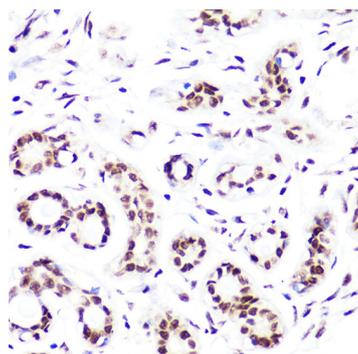
Dot-blot analysis of all sorts of methylation peptides using DiMethyl-Histone H3-K4 antibody (A2356).



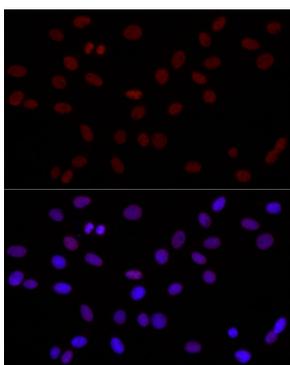
Immunohistochemistry analysis of DiMethyl-Histone H3-K4 in paraffin-embedded Rat testis using DiMethyl-Histone H3-K4 Rabbit pAb (A2356) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of DiMethyl-Histone H3-K4 in paraffin-embedded Mouse kidney using DiMethyl-Histone H3-K4 Rabbit pAb (A2356) at dilution of 1:100 (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-K4 in paraffin-embedded Human breast using DiMethyl-Histone H3-K4 Rabbit pAb (A2356) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunofluorescence analysis of PC-12 cells using DiMethyl-Histone H3-K4 Rabbit pAb (A2356) at dilution of 1:50 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from HeLa, using 5.5 µg of DiMethyl-Histone H3-K4 Rabbit pAb (A2356) 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.