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DiMethyl-Histone H3-K36 Rabbit pAb

Catalog No.: A2365 4 Publications

Basic Information

Observed MW
17kDa

Calculated MW
16kDa

Category
Primary antibody

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

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	5μg antibody for 5μg-10μg of Chromatin
ChIP-seq	1:20 - 1:100

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
A synthetic dimethylated peptide around K36 of human histone H3 (NP_003520.1).

Synonyms
H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; DiMethyl-Histone H3-K36

Contact

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Product Information

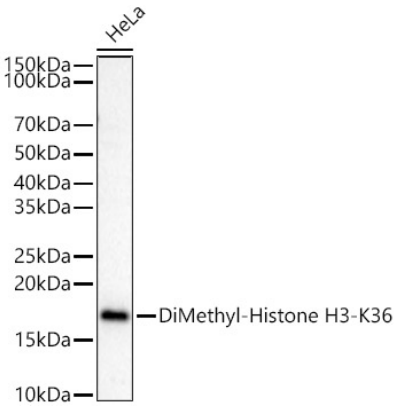
Source
Rabbit

Isotype
IgG

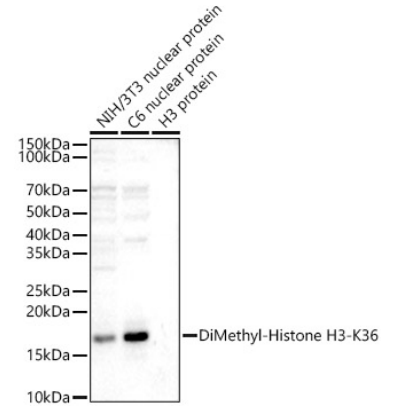
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

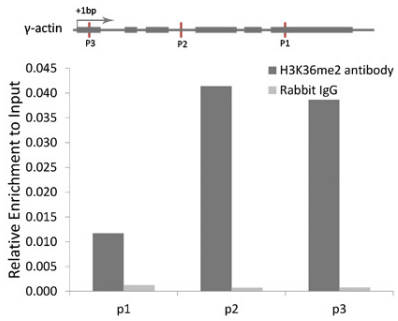
Validation Data



Western blot analysis of lysates from HeLa cells, using DiMethyl-Histone H3-K36 Rabbit pAb (A2365) at 1:600 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: 180s.

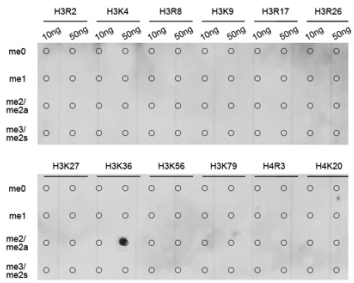


Western blot analysis of various lysates, using DiMethyl-Histone H3-K36 Rabbit pAb (A2365) at 1:600 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 180s.

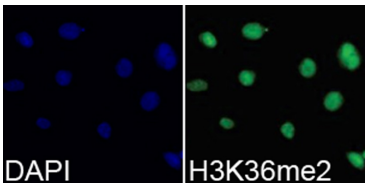


Chromatin immunoprecipitation analysis of γ-actin gene from 293 cell line, using DiMethyl-Histone H3-K36 antibody (A2365) and rabbit IgG. P1, P2 and P3 were probes located on γ-actin gene as the schematic diagram illustrated. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

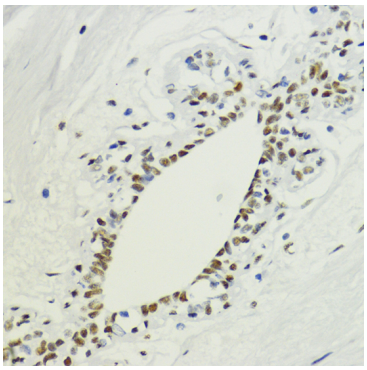
Validation Data



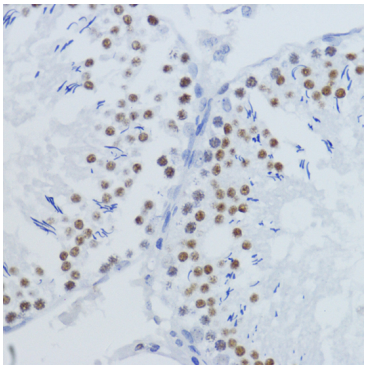
Dot-blot analysis of all sorts of methylation peptides using DiMethyl-Histone H3-K36 antibody (A2365).



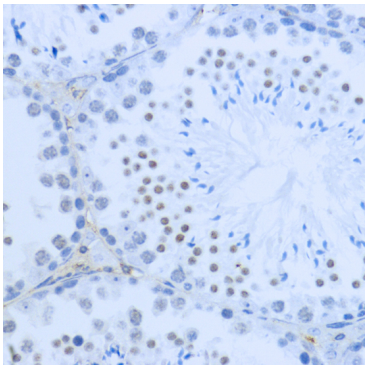
Immunofluorescence analysis of 293T cells using DiMethyl-Histone H3-K36 Rabbit pAb (A2365). Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of DiMethyl-Histone H3-K36 in paraffin-embedded human breast using DiMethyl-Histone H3-K36 Rabbit pAb (A2365) 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-K36 in paraffin-embedded rat testis using DiMethyl-Histone H3-K36 Rabbit pAb (A2365) 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-K36 in paraffin-embedded mouse testis using DiMethyl-Histone H3-K36 Rabbit pAb (A2365) 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.