

A2365

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## DiMethyl-Histone H3-K36 Rabbit pAb

Catalog No.: A2365

4 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

<b>WB</b>	1:500 - 1:1000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200
<b>ChIP</b>	5µg antibody for 5µg-10µg of Chromatin
<b>ChIP-seq</b>	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

[www.abclonal.com](http://www.abclonal.com)

### Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

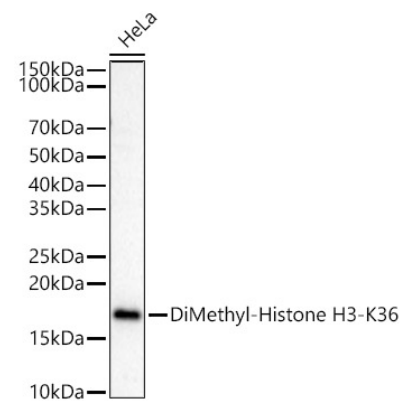
Affinity purification

**Storage**

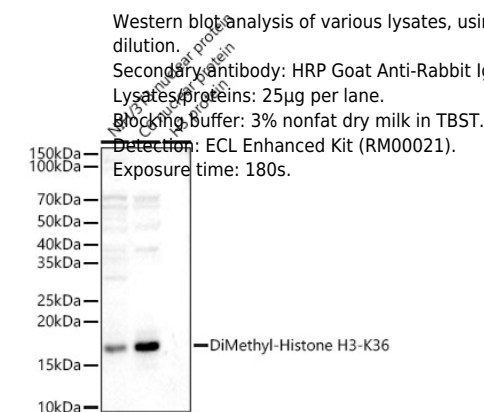
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

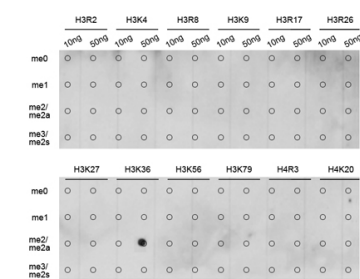
Validation Data



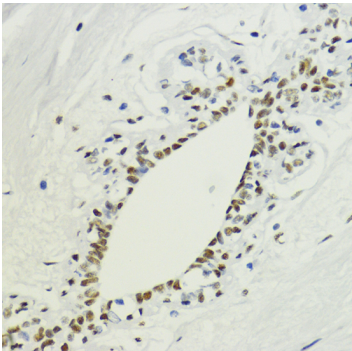
Western blot analysis of lysates from HeLa cells, using DiMethyl-Histone H3-K36 Rabbit pAb (A2365) at 1:600 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.



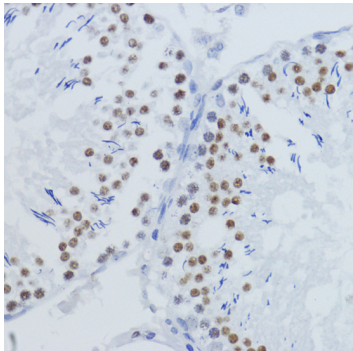
Western blot analysis of various lysates, using DiMethyl-Histone H3-K36 Rabbit pAb (A2365) at 1:600 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Enhanced Kit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



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

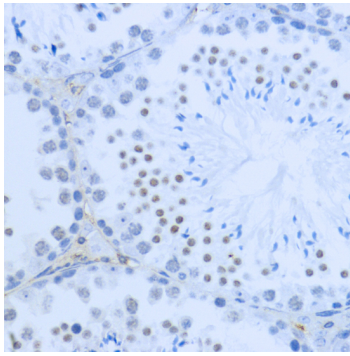


Immunohistochemistry analysis of DiMethyl-Histone H3-K36 in paraffin-embedded human breast using DiMethyl-Histone H3-K36 Rabbit pAb (A2365) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

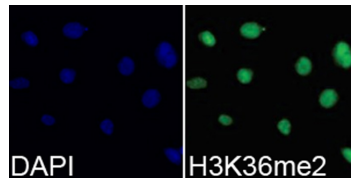


Immunohistochemistry analysis of DiMethyl-Histone H3-K36 in paraffin-embedded rat testis using DiMethyl-Histone H3-K36 Rabbit pAb (A2365) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

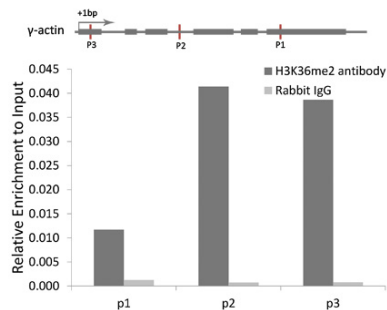
## Validation Data



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.



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



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.