

# Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb

Catalog No.: A3157

## Basic Information

### Observed MW

17kDa

### Calculated MW

16kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P, IF/ICC, CHIP

### 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>	1:100 - 1:500
<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

## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

A synthetic asymmetric dimethylated peptide around R8 of human histone H3 (NP\_003520.1).

### Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; Asymmetric DiMethyl-Histone H3-R8

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

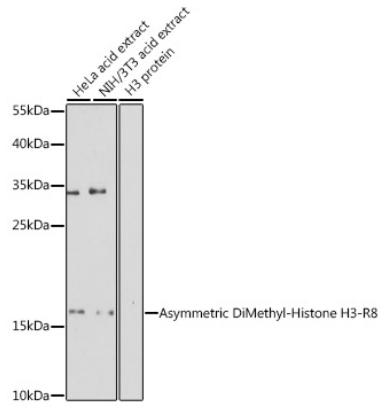
Affinity purification

### Storage

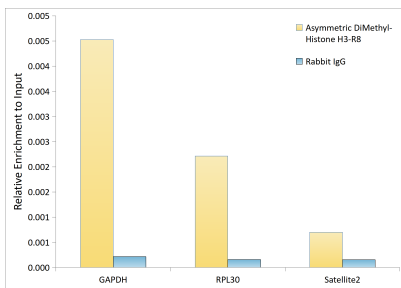
Store at -20°C. Avoid freeze / thaw cycles.

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

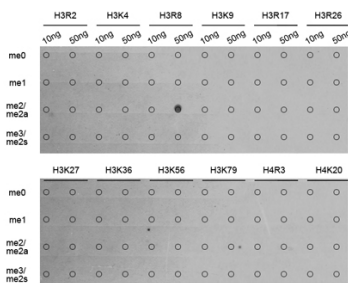
# Validation Data



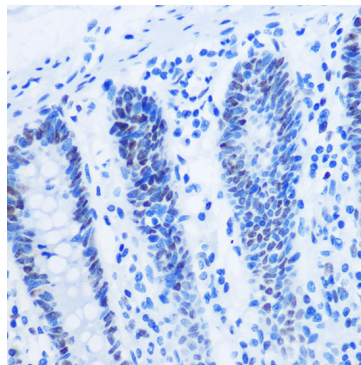
Western blot analysis of various lysates using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at 1:500 dilution.  
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 180s.



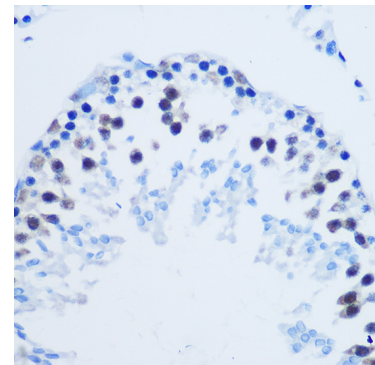
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Asymmetric DiMethyl-Histone H3-R8 antibody (A3157) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Dot-blot analysis of all sorts of methylation peptides using Asymmetric DiMethyl-Histone H3-R8 antibody (A3157).



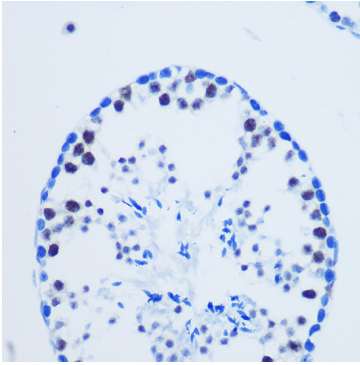
Immunohistochemistry analysis of paraffin-embedded Human colon using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



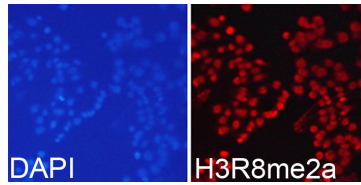
Immunohistochemistry analysis of paraffin-embedded Rat testis using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Mouse testis using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) 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 293T cells using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157). Blue: DAPI for nuclear staining.