

# 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**

WB	1:100 - 1:500
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

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

## Immunogen Information

Gene ID	Swiss Prot	
8290/8350	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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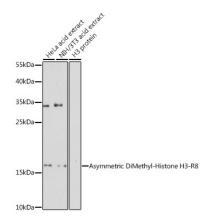
## **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

#### Storage

Store at -20  $^{\circ}\text{C}.$  Avoid freeze / thaw cycles.

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



Western blot analysis of various lysates using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at 1:500 dilution

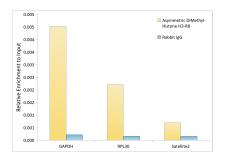
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

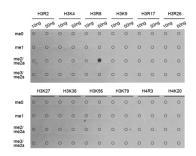
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

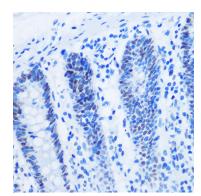
Exposure time: 180s.



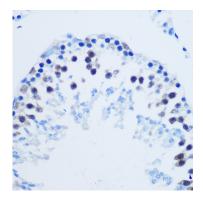
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Asymmetric DiMethyl-Histone H3-R8 antibody (A3157) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



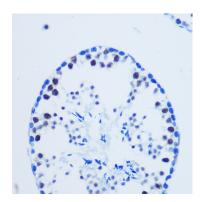
Dot-blot analysis of all sorts of methylation peptides using Asymmetric DiMethyl-Histone H3-R8 antibody (A3157).

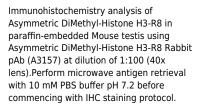


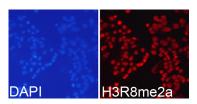
Immunohistochemistry analysis of Asymmetric DiMethyl-Histone H3-R8 in paraffin-embedded Human colon using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Asymmetric DiMethyl-Histone H3-R8 in 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.







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