Leader in Biomolecular Solutions for Life Science

# Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb

## Catalog No.: A3157

1 Publications

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## Basic Information

**Observed MW**
17 kDa

**Calculated MW**
15 kDa

**Category**
Polyclonal Antibodies

**Applications**
WB, IF/ICC, IHC-P, DB, ChIP, 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** | 1:100 - 1:500 |
| **IF/ICC** | 1:50 - 1:200 |
| **IHC-P** | 1:50 - 1:200 |
| **DB** | 1:500 - 1:1000 |

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

**ELISA**
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**
8290/8350

**Swiss-Prot**
Q16695/P68431

**Immunogen**
Synthetic peptide. This information is considered to be commercially sensitive.

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


## Contact

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## Product Information

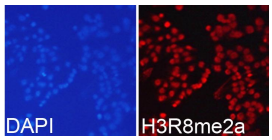
**Source**
Rabbit

**Isotype**
IgG

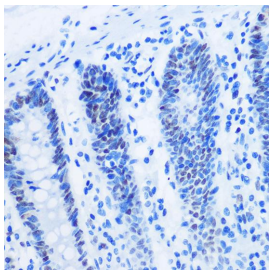
**Purity**
Affinity purification

**Storage**
Store at -20℃

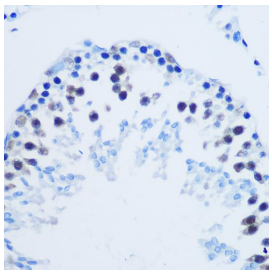
## Validation Data



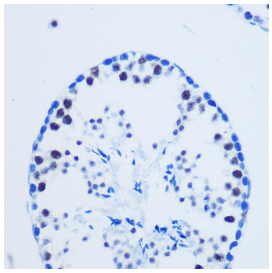

Immunofluorescence analysis of 293T cells using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157). Blue: DAPI for nuclear staining.



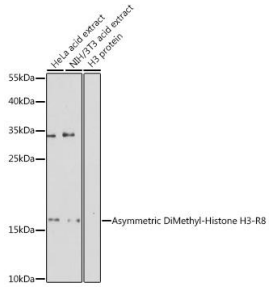
Immunohistochemistry analysis of paraffin-embedded Human colon using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



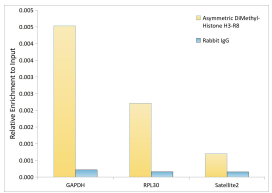
Immunohistochemistry analysis of paraffin-embedded Rat testis using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



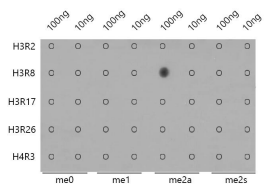
Immunohistochemistry analysis of paraffin-embedded Mouse testis using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.




Western blot analysis of various lysates using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at 1:500 dilution.
Secondary antibody: HRP-conjugated 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 peptides using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at 1:1000 dilution.