# Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb

Catalog No.: A3157



## **Basic Information**

Observed MW 17 kDa

Calculated MW 15 kDa

Category Primary antibody

Applications WB,IHC-P,IF/ICC,ELISA,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
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
ChIP	5µg antibody for 5µg-10µg of Chromatin

Contact

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## Immunogen Information

Gene ID 8290/8350 **Swiss Prot** Q16695/P68431

#### Immunogen

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

#### Synonyms

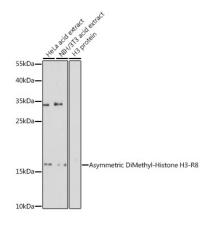
H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; Asymmetric DiMethyl-Histone H3-R8

## **Product Information**

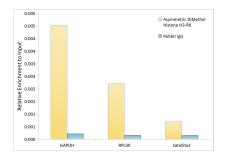
**Source** Rabbit **Isotype** IgG **Purification** Affinity purification

#### Storage

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



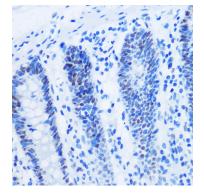
Western blot analysis of various lysates using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at 1:500 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL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



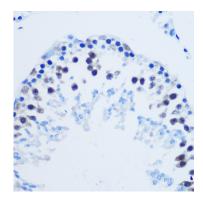
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Asymmetric DiMethyl-Histone H3-R8 antibody (A3157) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

	H3R2		H3K4		H3R8		нзкэ		H3R17		H3R26		
	1009	50n9	1009	50ng	1009	50n9	1009	50n9	1009	50ng	1009	50n9	
me0	0	0	0	0	0	0	0	0	0	0	0	0	
me1	0	0	0	0	0	0	0	0	0	0	0	0	
me2/ me2a	0	0	0	0	0	•	0	0	0	0	0	0	
me3/ me2s	0	0	0	0	0	0	0	0	0	0	0	0	
	нз	H3K27		H3K36		H3K56		H3K79		H4R3		H4K20	
me0	0	0	0	0	0	0	0	0	0	0	0	0	
me1	0	0	0	0	0	0	0	0	0	0	0	0	
me2/ me2a	0	0	0	0	0	0	0	0 *	0	0	0	0	
me3/ me2s	0	0	0	0	0	0	0	0	0	0	0	0	

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

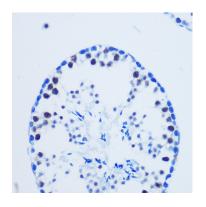


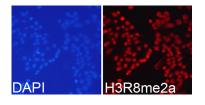
Immunohistochemistry analysis of paraffinembedded Human colon using Asymmetric DiMethyl-Histone H3-R8 Rabbit pAb (A3157) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded 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.

## **Validation Data**





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