Symmetric DiMethyl-Histone H3-R8 Rabbit pAb

Catalog NO.: A2374SP **5 Publications**

Basic Information

Observed MW
17 kDa

Calculated MW
15 kDa

Category
Methylated Antibodies

Applications
WB, IF/ICC, IHC-P, DB, ChIP, ELISA

Cross-Reactivity
Human, Mouse, Rat, Other (Wide Range Predicted)

Conjugation
Unconjugated

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 found in the large histone gene cluster on chromosome 6p22-p21.3.

Recommended Dilutions

WB	1:2000 - 1:10000
IF/ICC	1:100 - 1:400
IHC-P	1:500 - 1:2000
DB	1:500 - 1:1000

ChIP 2 µg antibody for 10 µg - 15 µg of Chromatin

ELISA
Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (⩾1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

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

Synonyms
H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; Symmetric DiMethyl-Histone H3-R8

Contact

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Product Information

Source
Rabbit

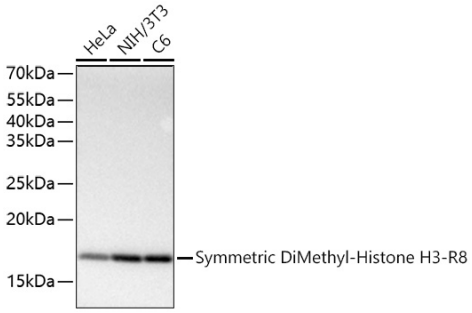
Isotype
IgG

Purification
Affinity purification

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

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

Validation Data



Western blot analysis of various lysates using Symmetric DiMethyl-Histone H3-R8 Rabbit pAb (A2374SP) at 1:10000 dilution incubated overnight at 4°C.

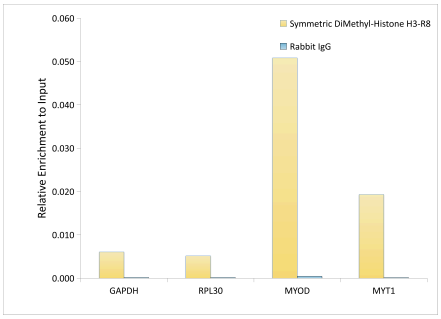
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

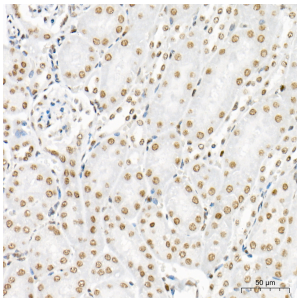
Blocking buffer: 3% nonfat dry milk in TBST.

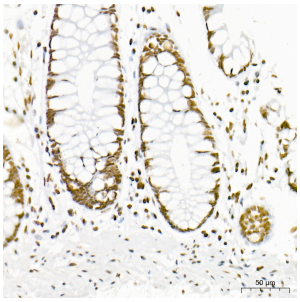
Detection: ECL Basic Kit (RM00020).

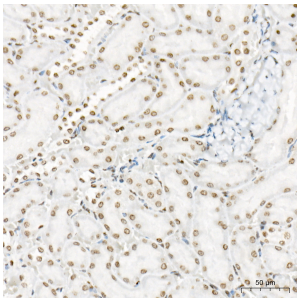
Exposure time: 30 s.



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HCT 116 cells, using 2 µg of Symmetric DiMethyl-Histone H3-R8 Rabbit pAb(A2374SP) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.





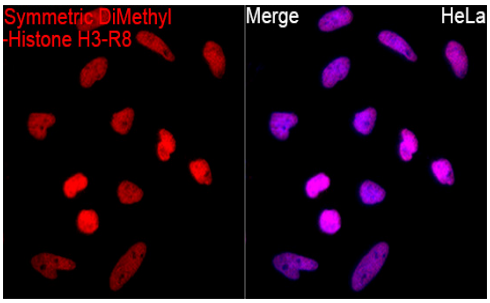


Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Symmetric DiMethyl-Histone H3-R8 Rabbit pAb (A2374SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Symmetric DiMethyl-Histone H3-R8 Rabbit pAb (A2374SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Symmetric DiMethyl-Histone H3-R8 Rabbit pAb (A2374SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Validation Data



Immunofluorescence analysis of HeLa cells using Symmetric DiMethyl-Histone H3-R8 Rabbit pAb (A2374SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

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