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Symmetric DiMethyl-Histone H3-R2 Rabbit mAb

Catalog No.: A29240 Recombinant

Basic Information

Observed MW
17 kDa

Calculated MW
16 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,IF-F,IHC-P,DB,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC84042

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	1:2000 - 1:15000
IP	0.5 µg - 4 µg antibody for 400 µg - 600 µg extracts of whole cells
IF/ICC	1:200 - 1:2000
IF-F	1:200 - 1:800
IHC-P	1:200 - 1:800
DB	1:2000 - 1:10000
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; H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

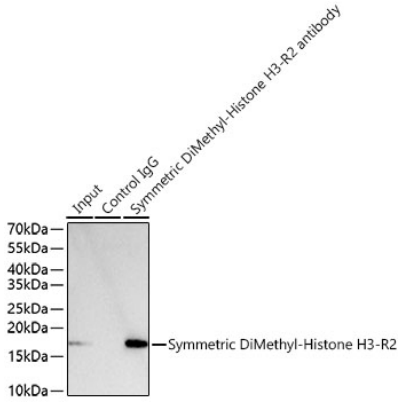
Contact

400-999-6126

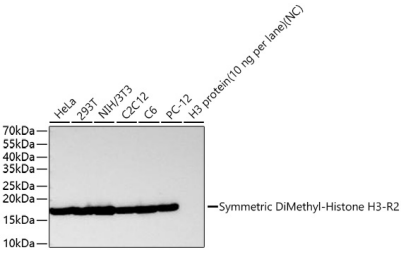
cn.market@abclonal.com.cn

www.abclonal.com.cn

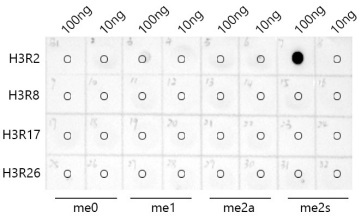
Validation Data



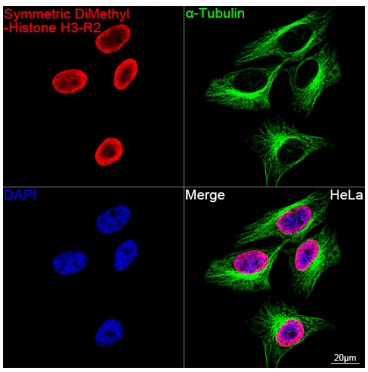
Immunoprecipitation of Symmetric DiMethyl-Histone H3-R2 from 600 µg extracts of HeLa cells was performed using 2 µg of Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240) at a dilution of 1:5000.



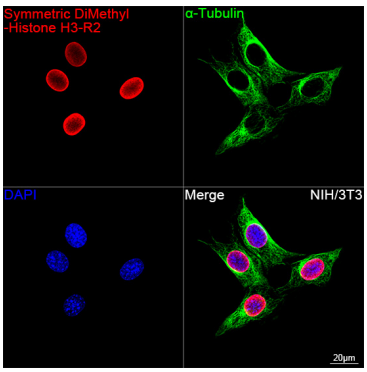
Western blot analysis of various lysates using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): H3 protein.
Exposure time: 1 s.



Dot-blot analysis of all sorts of peptides using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240) at 1:5000 dilution.

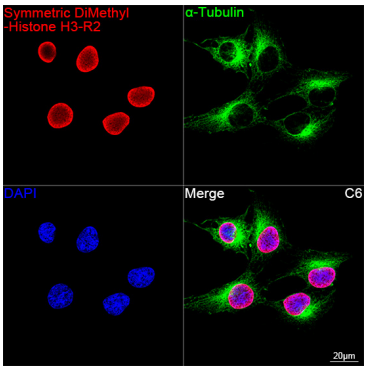


Confocal imaging of HeLa cells using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

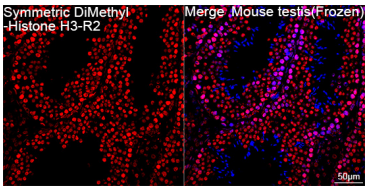


Confocal imaging of NIH/3T3 cells using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

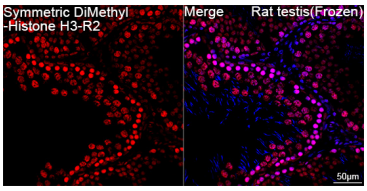
Validation Data



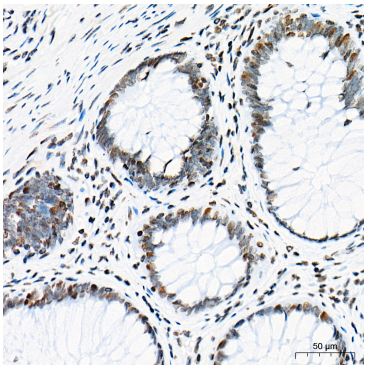
Confocal imaging of C6 cells using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



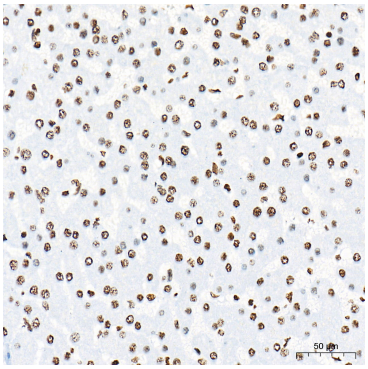
Confocal imaging of frozen sections of Mouse testis tissue using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



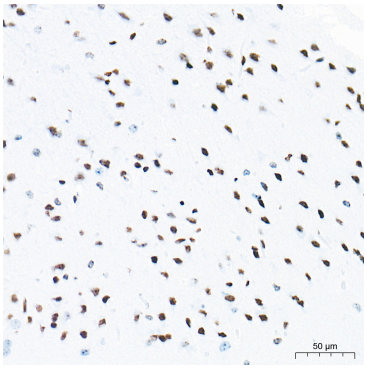
Confocal imaging of frozen sections of Rat testis tissue using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



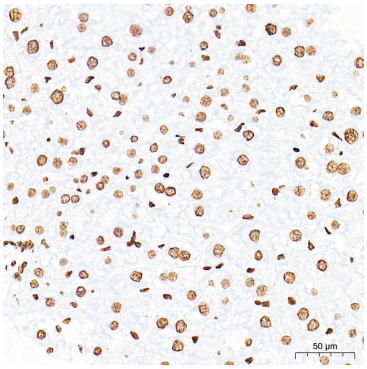
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



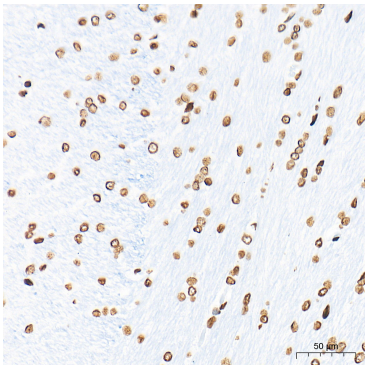
Immunohistochemistry analysis of paraffin-embedded Human liver tissue using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



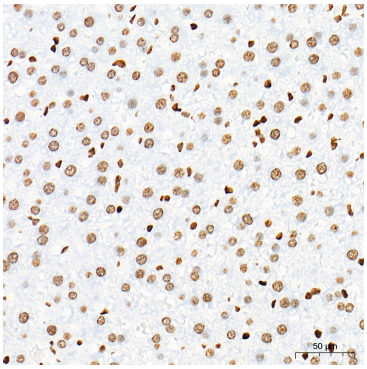
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240) at a dilution of 1:500 (40x lens). High pressure antigen retrieval



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Symmetric DiMethyl-Histone H3-R2 Rabbit mAb (A29240) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed

Validation Data

performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

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