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Symmetric DiMethyl-Histone H3-R8 Rabbit mAb

Catalog No.: A21207 Recombinant

Basic Information

Observed MW
17kDa

Calculated MW
16kDa

Category
Primary antibody

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

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

CloneNo number
ARC53358

Recommended Dilutions

DB	1:10000 - 1:120000
WB	1:2000 - 1:10000
IHC-P	1:500 - 1:1000
IF/ICC	1:50 - 1:200

Contact

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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.

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
A synthetic symmetric dimethylated peptide around R8 of human Histone H3 (NP_003520.1).

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

Product Information

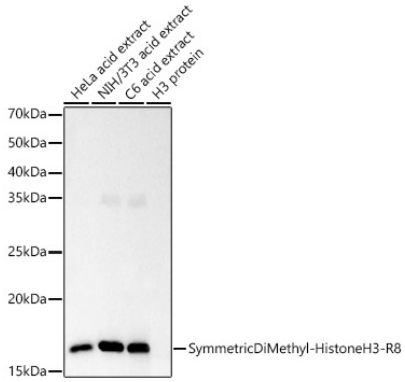
Source
Rabbit

Isotype
IgG

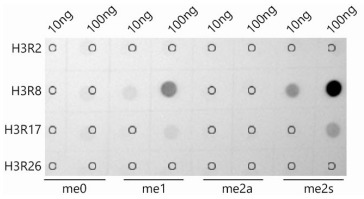
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

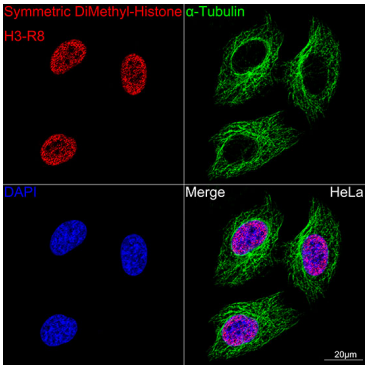
Validation Data



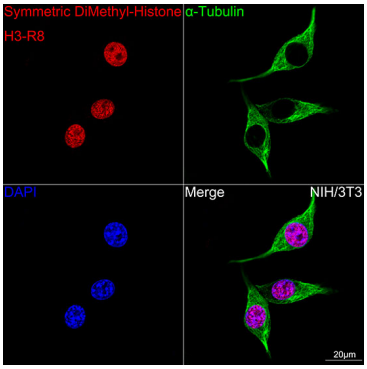
Western blot analysis of various lysates, using Symmetric DiMethyl-Histone H3-R8 Rabbit mAb (A21207) at 1:10000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.



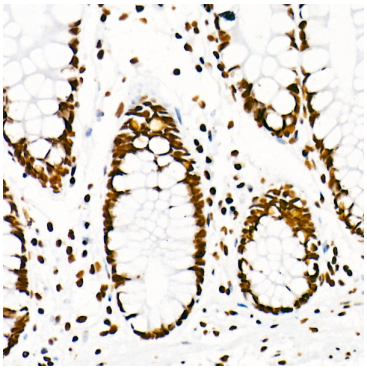
Dot-blot analysis of all sorts of peptides using Symmetric DiMethyl-Histone H3-R8 antibody (A21207) at 1:1000 dilution.



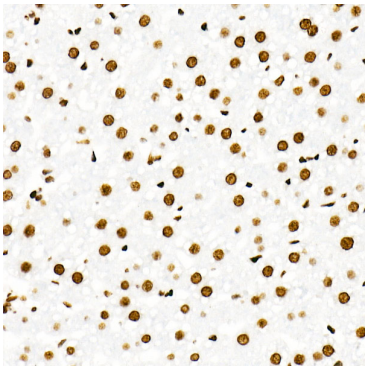
Confocal imaging of HeLa cells using Symmetric DiMethyl-Histone H3-R8 Rabbit mAb (A21207,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation 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.



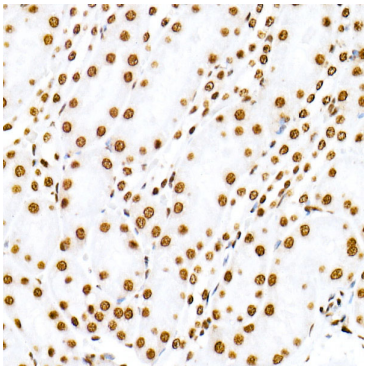
Confocal imaging of NIH/3T3 cells using Symmetric DiMethyl-Histone H3-R8 Rabbit mAb (A21207,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation 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.



Immunohistochemistry analysis of Symmetric DiMethyl-Histone H3-R8 in paraffin-embedded Human colon using Symmetric DiMethyl-Histone H3-R8 Rabbit mAb (A21207) at dilution of 1:1000(40x lens).Perform high pressure antigen



Immunohistochemistry analysis of Symmetric DiMethyl-Histone H3-R8 in paraffin-embedded Rat liver using Symmetric DiMethyl-Histone H3-R8 Rabbit mAb (A21207) at dilution of 1:1000(40x lens).Perform high pressure antigen



Immunohistochemistry analysis of Symmetric DiMethyl-Histone H3-R8 in paraffin-embedded Mouse kidney using Symmetric DiMethyl-Histone H3-R8 Rabbit mAb (A21207) at dilution of 1:1000(40x lens).Perform high pressure antigen

retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

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