

H3K9me3 Antibody | anti-H3K9me3 antibody

Histone H3K9me3 Polyclonal Antibody

CATALOG #	APPLICATIONS
AAA10650	Dot Blot, Western Blot, Immunohistochemistry, Immunofluorescence, Chromatin Immunoprecipitation, Immunoprecipitation

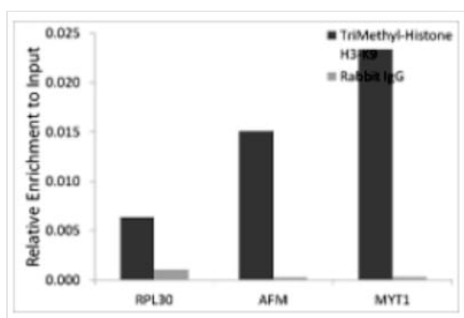
PRODUCT SYNONYMS

H3K9me3; Histone H3K9me3 Polyclonal Antibody; TriMethyl-Histone H3-K9: HIST1H3J; H3/j; H3FJ; Histone H3.1; Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/l; Histone H3/j; Histone H3/k; Histone H3/l; HIST3H3; anti-H3K9me3 antibody

PRODUCT SPECIFICATIONS

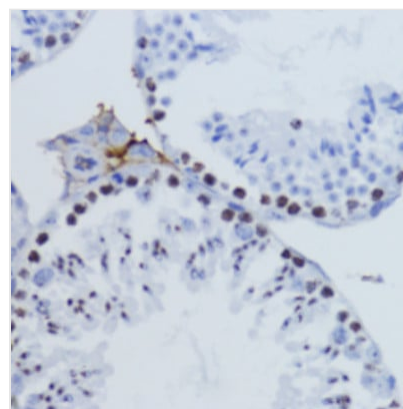
Isotype	IgG
Purity/Purification	Affinity Purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Sequence Length	136
Applicable Applications for anti-H3K9me3 antibody	DB (Dot Blot), WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ChIP (Chromatin Immunoprecipitation)
Application Notes	DB 1:500 - 1:2000 WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200 ChIP 1:50 - 1:200
Source	Human
Immunogen	A synthetic methylated peptide corresponding to residues surrounding K9 of human histone H3
Species Reactivity/Cross Reactivity	Human, Mouse, Rat, Other (Wide Range)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.

IMAGES



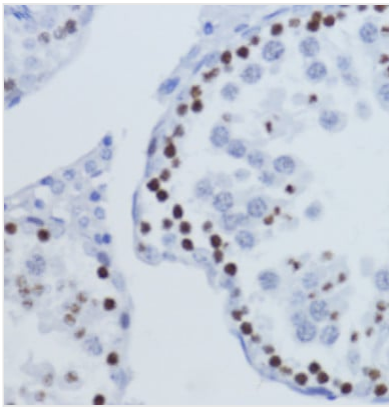
ChIP (Chromatin Immunoprecipitation)

Chromatin immunoprecipitation analysis of extracts of HeLa cells, using TriMethyl-Histone H3-K9 antibody (AAA10650) 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.



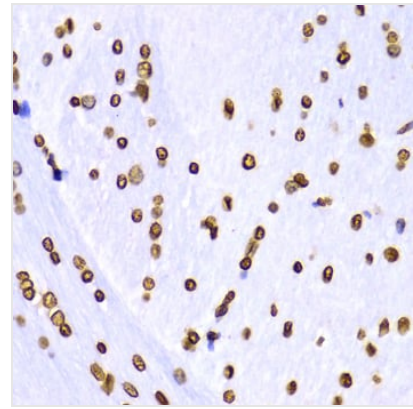
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse testis using TriMethyl-Histone H3-K9 antibody (AAA10650) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



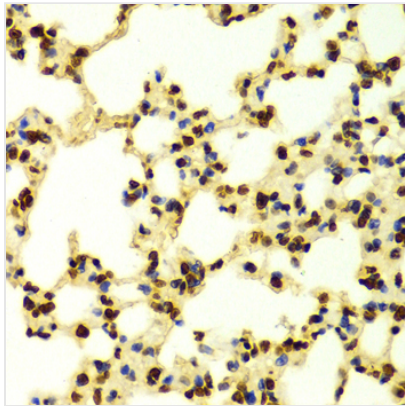
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat testis using TriMethyl-Histone H3-K9 antibody (AAA10650) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



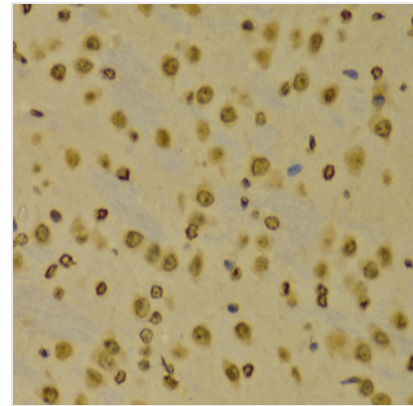
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Rat brain using TriMethyl-Histone H3-K9 antibody at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Mouse lung using TriMethyl-Histone H3-K9 antibody at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Mouse brain using TriMethyl-Histone H3-K9 antibody at dilution of 1:100 (40x lens).

ADDITIONAL INFORMATION

Related Product Information for anti-H3K9me3 antibody

Modulation of chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of DNA wound around eight core histone proteins (two each of H2A, H2B, H3, and H4), is the primary building block of chromatin (1). The amino-terminal tails of core histones undergo various post-translational modifications, including acetylation, phosphorylation, methylation, and ubiquitination (2-5). These modifications occur in response to various stimuli and have a direct effect on the accessibility of chromatin to transcription factors and, therefore, gene expression (6). In most species, histone H2B is primarily acetylated at Lys5, 12, 15, and 20 (4,7). Histone H3 is primarily acetylated at Lys9, 14, 18, 23, 27, and 56. Acetylation of H3 at Lys9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms (2,3). Phosphorylation at Ser10, Ser28, and Thr11 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis (8-10). Phosphorylation at Thr3 of histone H3 is highly conserved among many species and is catalyzed by the kinase haspin. Immunostaining with phospho-specific antibodies in mammalian cells reveals mitotic phosphorylation at Thr3 of H3 in prophase and its dephosphorylation during anaphase (11).

Product Categories/Family for anti-H3K9me3 antibody

[Methylation](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	18202512
NCBI GeneID	8290
UniProt Accession #	Q16695 ; Q6FGU4 ; B2R5K3

Molecular Weight	Observed MW: 17KDa Calculated MW: 15kDa
NCBI Official Full Name	Histone H3.1t
NCBI Official Synonym Full Names	histone cluster 3, H3
NCBI Official Symbol	HIST3H3
NCBI Official Synonym Symbols	H3t; H3.4; H3/g; H3FT
NCBI Protein Information	histone H3.1t; H3/t; histone 3, H3; H3 histone family, member T
UniProt Protein Name	Histone H3.1t
UniProt Gene Name	HIST3H3
UniProt Synonym Gene Names	H3FT; H3/t; H3t
UniProt Entry Name	H31T_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/antibody/h3k9me3/10650>