

Rabbit Histone H3K9me1 Monoclonal Antibody | anti-H3K9me1 antibody

Histone H3K9me1 antibody (mAb)(Clone MABI 0306)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59914	Rabbit	Human, Wide Range Predicted	Western Blot, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation

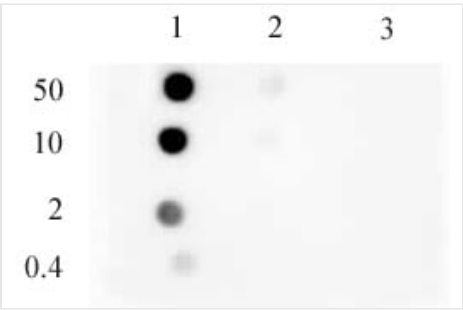
PRODUCT SYNONYMS

Histone H3K9me1; Monoclonal Antibody; Histone H3K9me1 antibody (mAb)(Clone MABI 0306); anti-H3K9me1 antibody

PRODUCT SPECIFICATIONS

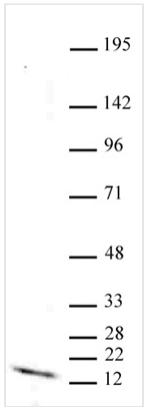
Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	MABI 0306
Purity/Purification	Protein G Chromatography
Form/Format	PBS pH7.5 containing 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	0.68ug/ul (varies by lot)
Applicable Applications for anti-H3K9me1 antibody	WB (Western Blot), DB (Dot Blot), ChIP (Chromatin immunoprecipitation)
Conjugation	Methylated
Immunogen	This Histone H3 monomethyl Lys9 antibody was raised against a synthetic peptide containing monomethyl Lys9 of human histone H3.
Abs Residue	Lys
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



Application Data

Histone H3 monomethyl Lys9 antibody specificity tested by peptide array analysis. Peptide array analysis was used to confirm the specificity of this antibody for its intended modification. Histone H3 monomethyl Lys9 antibody was applied at a dilution of 1:2,000 to MODified Histone Peptide Array spotted is indicated next to each row. Lane 1: monomethyl lysine 9 protein. Lane 2: dimethyl lysine 9 protein. Lane 3: trimethyl lysine 9 protein. No detection of proteins (unmodified, mono-, di-, or tri-methylated) corresponding to lysine 27 of histone H3 was observed with Histone H3 monomethyl Lys9 antibody.



WB (Western Blot)

Histone H3 monomethyl Lys9 antibody tested by Western blot. HeLa nuclear extract (20 ug) probed with Histone H3 monomethyl Lys9 antibody (2 ug/ml dilution).

ADDITIONAL INFORMATION

Related Product Information for anti-H3K9me1 antibody	Short Description: Our Histone H3K9me1 antibody (mAb)(Clone MABI 0306) was raised in a Mouse host. It has been validated for use in Chromatin Immunoprecipitation, Dot blot and Western blot; it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types. Background: Histone H3 is one of the core components of the nucleosome. The nucleosome is the smallest subunit of chromatin and consists of 147 base pairs of DNA wrapped around an octamer of core histone proteins (two each of Histone H2A, Histone H2B, Histone H3 and Histone H4). Histone H1 is a linker histone, present at the interface between the nucleosome core and DNA entry/exit points. Histone H1 is responsible for establishing higher-order chromatin structure. Chromatin is subject to a variety of chemical modifications, including post-translational modifications of the histone proteins and the methylation of cytosine residues in the DNA. Reported histone modifications include acetylation, methylation, phosphorylation, ubiquitylation, glycosylation, ADP-ribosylation, carbonylation and SUMOylation; these modifications play a major role in regulating gene expression. The methylation of histones can occur on two different residues: arginine or lysine. Histone methylation can be associated with transcriptional activation or repression, depending on the methylated residue. Lysine 9 of histone H3 can be mono-, di- or trimethylated by different histone methyltransferases (HMTs) such as SuvH39H1 or G9a. This methylated lysine can be demethylated by histone demethylases as JMJD1A, LSD1 or JMJD2C. Methylation of this residue is mainly associated with transcriptional repression.
Product Categories/Family for anti-H3K9me1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

Molecular Weight	17kDa
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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://stage.aaabiotech.com/monoclonal/histone-h3k9me1-antibody-clone-mabi-0306-western-blot-dot-blot-chromatin-immunoprecipitation-elisa/59914>