

Rabbit Histone H3K9me1 Polyclonal Antibody | anti-H3K9me1 antibody

Histone H3K9me1 antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59941	Rabbit	Human, Wide Range Predicted	Western Blot, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

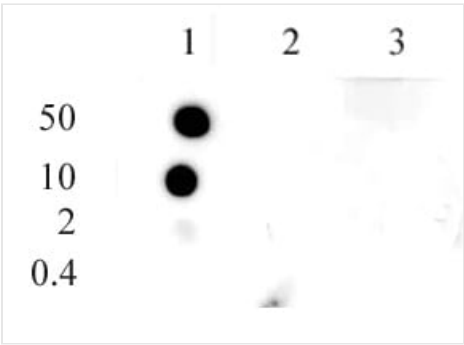
PRODUCT SYNONYMS

Histone H3K9me1; Polyclonal Antibody; Histone H3K9me1 antibody (pAb); anti-H3K9me1 antibody

PRODUCT SPECIFICATIONS

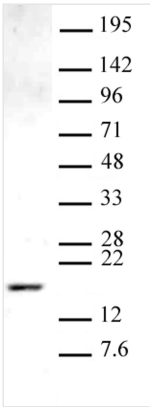
Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in PBS (pH7.5) with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic. For your convenience, an unpurified serum version of this antibody is also available.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3K9me1 antibody	WB (Western Blot), DB (Dot Blot), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Conjugation	Methylated
Immunogen	This Histone H3 monomethyl Lys9 antibody was raised against a peptide including monomethyl lysine 9 of 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



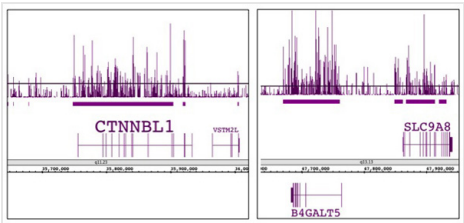
DB (Dot Blot)

Histone H3 monomethyl Lys9 antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H3 monomethyl Lys9 antibody for monomethyl Lys9 of histone H3. Recombinant methylated proteins corresponding to the immunogen and related proteins were spotted onto PVDF and probed with Histone H3 monomethyl Lys9 antibody at 2 ug/ml. The amount of protein (picomoles) spotted is indicated next to each row. Lane 1: recombinant monomethyl lysine 9 protein. Lane 2: recombinant dimethyl lysine 9 protein. Lane 3: recombinant trimethyl lysine 9 protein.



WB (Western Blot)

Histone H3 monomethyl Lys9 antibody (pAb) tested by Western blot. Nuclear extract of HeLa cells (20 ug per lane) probed with Histone H3 monomethyl Lys9 antibody at a dilution of 2 ug/ml.



ChIP (Chromatin Immunoprecipitation)

Histone H3K9me1 antibody (pAb) tested by ChIP-chip. ChIP was performed using the ChIP-IT High Sensitivity Kit with chromatin from a human breast cancer cell line (4.5 million cells) and 4 ul of antibody. ChIP DNA was amplified by WGA, labeled and hybridized to a human tiling array. The literature suggests that this histone modification is enriched in actively transcribed genes. The 2 images above show enrichment of H3K9me1 across gene bodies.

ADDITIONAL INFORMATION

Related Product Information for anti-H3K9me1 antibody	Short Description: Our Histone H3K9me1 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, 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/polyclonal/histone-h3k9me1-antibody-western-blot-dot-blot-chromatin-immunoprecipitation-chromatin-immunoprecipitation-elisa/59941>