Rabbit Histone H3K9me1me2me3 Polyclonal Antibody | anti-H3K9me1me2me3 antibody

Histone H3K9me1me2me3 antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59849	**Rabbit**	**Human, Wide Range Predicted**	**Western Blot, Immunofluorescence, Immunocytochemistry, Dot Blot**

PRODUCT SYNONYMS

Histone H3K9me1me2me3; Polyclonal Antibody; Histone H3K9me1me2me3 antibody (pAb); anti-H3K9me1me2me3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Polyclonal
Form/Format	Rabbit serum containing 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-H3K9me1me2me3 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), DB (Dot Blot)
Conjugation	Methylated
Immunogen	This Histone H3 pan-methyl Lys9 antibody was raised against a peptide including methyl-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 pan-methyl Lys9 antibody tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H3 pan-methyl Lys9 for methyl-lysine 9 of histone H3. Decreasing amounts of peptides corresponding to regions around major sites of histone H3 methylation (lysine 4, lysine 9, lysine 27) were spotted onto PVDF and probed with Histone H3 pan-methyl Lys9 antibody at a dilution of 1:5,000. Lane 1: Unmodified Lys4 peptide. Lane 2: Monomethyl Lys4 peptide. Lane 3: Dimethyl Lys4 peptide. Lane 4: Trimethyl Lys4 peptide. Lane 5: Unmodified Lys9 peptide. Lane 6: Monomethyl Lys9 peptide. Lane 7: Dimethyl Lys9 peptide. Lane 8: Trimethyl Lys9 peptide. Lane 9: Unmodified Lys27 peptide. Lane 10: Monomethyl Lys27 peptide. Lane 11: Dimethyl Lys27 peptide. Lane 12: Trimethyl Lys27 peptide.

WB (Western Blot)
Histone H3 pan-methyl Lys9 antibody tested by Western blot. Detection of Histone H3 dimethyl Lys9 by Western blot. The analysis was performed using 10 ug HeLa acid extract and Histone H3 pan-methyl Lys9 antibody at a 1:1,000 dilution.

IF (Immunofluorescence)
Histone H3 pan-methyl Lys9 antibody tested by immunofluorescence. Staining of HeLa cells with Histone H3 pan-methyl Lys9 antibody (1:1,000 dilution, top panel) and DAPI (middle panel), and a merge of both images (bottom panel).

ADDITIONAL INFORMATION

Related Product Information for anti-H3K9me1me2me3 antibody	Short Description: Our Histone H3K9me1me2me3 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Dot blot, Immunocytochemistry, Immunofluorescence 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-H3K9me1me2me3 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

Molecular Weight	17kDa

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-h3k9me1me2me3-antibody-western-blot-immunofluorescence-immunocytochemistry-dot-blot-elisa/59849