

Rabbit Histone H3K79me1 Polyclonal Antibody | anti-H3K79me1 antibody

Histone H3K79me1 antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59949	Rabbit	Human, Wide Range Predicted	Western Blot, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation

PRODUCT SYNONYMS

Histone H3K79me1; Polyclonal Antibody; Histone H3K79me1 antibody (pAb); anti-H3K79me1 antibody

PRODUCT SPECIFICATIONS

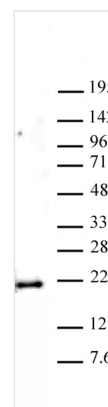
Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in PBS (pH7.5) with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic. For your convenience, an unpurified serum version of this antibody is also available.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3K79me1 antibody	WB (Western Blot), DB (Dot Blot), ChIP (Chromatin immunoprecipitation)
Conjugation	Methylated
Immunogen	This Histone H3 monomethyl Lys79 antibody was raised against a peptide including monomethyl-lysine 79 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



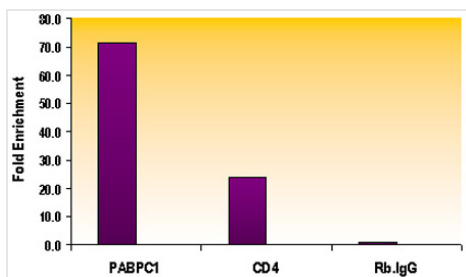
DB (Dot Blot)

Histone H3 monomethyl Lys79 antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H3 monomethyl Lys79 antibody for monomethyl-Lys79 of histone H3. Peptides corresponding to the region around lysine 79 of histone H3 were spotted onto PVDF and probed with Histone H3 monomethyl Lys79 antibody at a dilution of 1 ug/ml. The amount of peptide (in picomoles) spotted is indicated next to each row. Lane 1: unmodified Lys64 peptide. Lane 2: monomethyl Lys64 peptide. Lane 3: dimethyl Lys64 peptide. Lane 4: trimethyl Lys64 peptide. Lane 5: monomethyl Lys56 peptide. Lane 6: dimethyl Lys56 peptide. Lane 7: trimethyl Lys56 peptide. Lane 8: monomethyl Lys79 peptide. Lane 9: dimethyl Lys79 peptide. Lane 10: trimethyl Lys79 peptide. No detection of peptides (unmodified, mono-, di-, or tri-methylated) corresponding to lysine 4, lysine 9, lysine 18, lysine 23, lysine 27 and lysine 36 of Histone H3 was observed with Histone H3 dimethyl Lys79 antibody.



WB (Western Blot)

Histone H3 monomethyl Lys79 antibody (pAb) tested by Western blot. Nuclear extract of HeLa cells (20 ug) probed with Histone H3 monomethyl Lys79 antibody (1 ug/ml dilution).



ChIP (Chromatin Immunoprecipitation)

Histone H3 monomethyl Lys79 antibody tested by ChIP analysis. Chromatin IP performed using the ChIP-IT Express Kit and HeLa Chromatin (1.5 x 10⁶ cell equivalents per ChIP) using 10 ug of Histone H3 monomethyl Lys79 pAb or the equivalent amount of rabbit IgG as a negative control. Real time, quantitative PCR (RT-qPCR) was performed on DNA purified from each of the ChIP reactions using a primer pair specific for the indicated gene. Data are presented as Fold Enrichment of the ChIP antibody signal versus the negative control IgG using the ddCT method.

ADDITIONAL INFORMATION

Related Product Information for anti-H3K79me1 antibody

Short Description: Our Histone H3K79me1 antibody (pAb) was raised in a Rabbit 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). 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. Lysine 79 of histone H3 can be mono-, di- or trimethylated by Dot1 methylase; methylation at this residue acts as a marker of inactive chromatin regions that is critical for transcriptional silencing, and it is thought that silencing proteins such as Sir3 function by blocking Dot1 methylation.

Product Categories/Family for anti-H3K79me1 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/histone-h3k79me1-antibody-western-blot-dot-blot-chromatin-immunoprecipitation-elisa/59949>