

Rabbit Histone H3K9ac Polyclonal Antibody | anti-H3K9ac antibody

Histone H3K9ac antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59799	Rabbit	Human, Mouse, Wide Range Predicted	Western Blot, Immunofluorescence, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

PRODUCT SYNONYMS

Histone H3K9ac; Polyclonal Antibody; Histone H3K9ac antibody (pAb); anti-H3K9ac antibody

PRODUCT SPECIFICATIONS

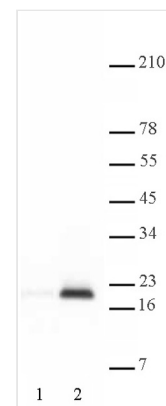
Host	Rabbit
Reactivity	Human, Mouse, Wide Range Predicted
Clonality	Polyclonal
Form/Format	Rabbit serum containing 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic. For your convenience, an IgG version of this antibody that was purified by Protein A Chromatography is also available.
Applicable Applications for anti-H3K9ac antibody	WB (Western Blot), IF (Immunofluorescence), DB (Dot Blot), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Conjugation	Acetylated
Immunogen	This Histone H3 acetyl Lys9 antibody was raised against a peptide including acetyl-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



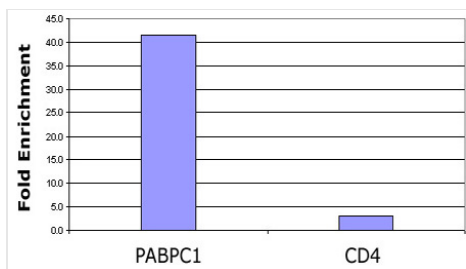
Application Data

Histone H3 acetyl 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 acetyl Lys9 antibody was applied at a dilution of 1:3,000 to MODified Histone Peptide Array spotted is indicated next to each row. Lane 1: Acetyl-Lys4 peptide. Lane 2: Unmodified Lys4 peptide. Lane 3: Acetyl-Lys9 peptide. Lane 4: Unmodified Lys9 peptide. Lane 5: Acetyl-Lys14 peptide. Lane 6: Unmodified Lys14 peptide. Lane 7: Acetyl-Lys18 peptide. Lane 8: Unmodified Lys18 peptide. Lane 9: Acetyl-Lys23 peptide. Lane 10: Unmodified Lys23 peptide. Lane 11: Acetyl-Lys27 peptide. Lane 12: Unmodified Lys27 peptide.



WB (Western Blot)

Histone H3 acetyl Lys9 antibody tested by Western blot. HeLa acid extract probed with Histone H3 acetyl Lys9 polyclonal antibody (1:2,000 dilution). Lane 1: No treatment. Lane 2: Cells treated with sodium butyrate.



ChIP (Chromatin Immunoprecipitation)

Histone H3 acetyl Lys9 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 µl of Histone H3 acetyl Lys9 antibody 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-H3K9ac antibody

Short Description: Our Histone H3K9ac antibody (pAb) was raised in a Rabbit host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, Dot blot, Immunofluorescence and Western blot; it has been shown to react with Human and Mouse 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 N-epsilon-acetylation is a dynamic, reversible and tightly regulated protein and histone modification that plays a major role in chromatin remodeling and in the regulation of gene expression in various cellular functions. Histone H3 Lys9 can also be mono-, di- or trimethylated. The methylation of this residue is often associated with transcriptional repression. However, acetylation of histone H3 Lys9 is associated with transcriptional activation of the genes.

Product Categories/Family for anti-H3K9ac 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-h3k9ac-antibody-western-blot-immunofluorescence-dot-blot-chromatin-immunoprecipitation-chromatin-immunoprecipitation-elisa/59799>