

Mouse Histone H3K9ac Antibody | anti-H3K9ac antibody

AbFlex Histone H3K9ac antibody (rAb)

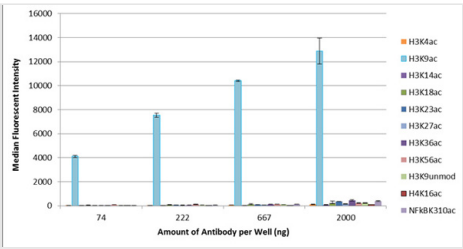
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60255	Mouse	Human, Wide Range Predicted	Western Blot, Immunofluorescence, Immunocytochemistry, ELISA, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

PRODUCT SYNONYMS

Histone H3K9ac; AbFlex Histone H3K9ac antibody (rAb); anti-H3K9ac antibody

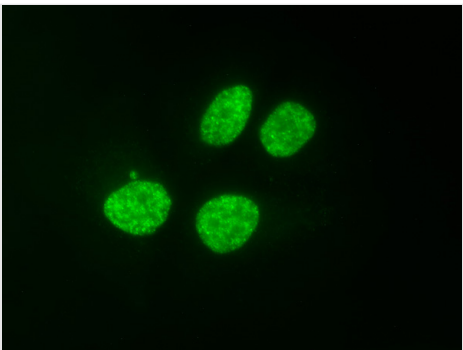
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Wide Range Predicted
Isotype	IgG2a
Purity/Purification	Ni-NTA
Form/Format	Purified IgG in 200mM Hepes pH7.5, 100mM NaCl, 50mM NaOAc, 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3K9ac antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Antibody Type	Recombinant Antibody
Conjugation	Acetylated
Immunogen	This antibody was raised against a peptide containing acetyl-lysine 9 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



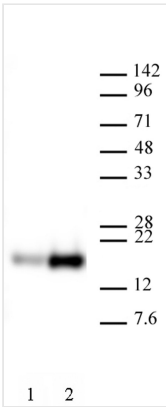
Application Data

AbFlex Histone H3K9ac antibody (rAb) tested by Luminex bead-based specificity analysis. Luminex bead-based specificity analysis was used to confirm the specificity of AbFlex Histone H3K9ac antibody (rAb) antibody for acetyl-lysine 9 H3. Peptides corresponding to regions around major sites of histone H3 acetylation or other acetyl-lysine peptides were conjugated to MagPlex Luminex beads and incubated with various amounts of AbFlexHistone H3K9ac antibody (rAb). Peptide-bound antibody was detected with anti-mouse IgG-Phycoerythrin and read in a Luminex instrument. Luminex is a registered trademark of Luminex Corporation.



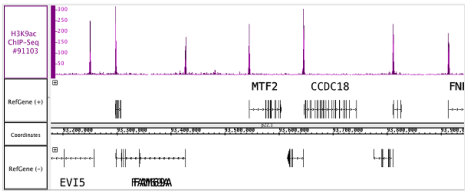
IF (Immunofluorescence)

AbFlex Histone H3K9ac antibody (rAb) tested by immunofluorescence. HeLa cell stained with 2ug /mL of AbFlex Histone H3K9ac antibody (rAb) followed by anti-mouse-IgG-488.



WB (Western Blot)

AbFlex Histone H3K9ac antibody (rAb) tested by Western blot. HeLa nuclear extract (20 ug per lane) probed with AbFlex Histone H3K9ac antibody (2 ug/ml dilution). Lane 1: untreated cells. Lane 2: cells treated with sodium butyrate.



ChIP (Chromatin Immunoprecipitation)

AbFlex Histone H3K9ac antibody (rAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT High Sensitivity Kit with 30 ug of chromatin from PC9 cell line and 4 ug of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 22 million sequence tags were mapped to identify Histone H3K9ac binding sites. The image shows binding across a region of chromosome 1.

ADDITIONAL INFORMATION

Related Product Information for anti-H3K9ac antibody

Short Description: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. Our AbFlex Histone H3K9ac antibody (rAb) was raised in a Mouse host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, ELISA, 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: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. AbFlex Histone H3K9ac antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in mammalian 293 cells. 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. Acetylation of histone H3 Lys9 is associated with transcriptional activation of the genes.

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/mouse-human-antibody/histone-h3k9ac/60255>