

Rabbit Histone H3K4ac Polyclonal Antibody | anti-H3K4ac antibody

Histone H3K4ac antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60092	Rabbit	Human, Wide Range Predicted	Western Blot, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

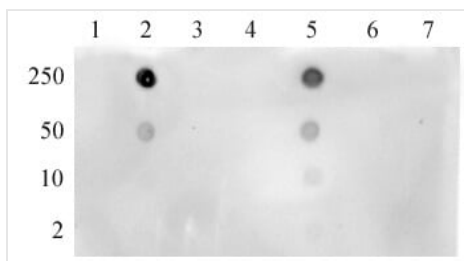
PRODUCT SYNONYMS

Histone H3K4ac; Polyclonal Antibody; Histone H3K4ac antibody (pAb); anti-H3K4ac 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 with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3K4ac antibody	WB (Western Blot), DB (Dot Blot), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Conjugation	Acetylated
Immunogen	This antibody was raised against a peptide containing acetyl lysine 4 of human Histone H3.
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



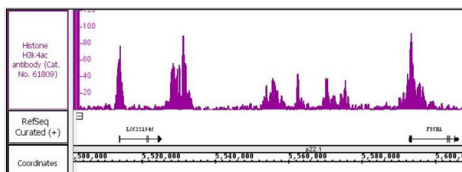
DB (Dot Blot)

Histone H3K4ac antibody (pAb) tested by dot blot. Specificity Data: Dot blot analysis was used to confirm the specificity of H3K4ac antibody (pAb). Proteins and peptides were spotted onto nitrocellulose and probed with antibody at 1 ug/ml. The amount of protein/ peptide (in picomoles) spotted is indicated next to each row. Column 1: Rec. Histone H3 . Column 2: Rec. Histone H3K4ac . Column 4: Rec. Histone H3K18ac . Column 5: Histone H3K4ac peptide. Column 6: Histone H3K9ac peptide. Column 7: Histone H3K18ac.



WB (Western Blot)

Histone H3K4ac antibody (pAb) tested by Western blot. HeLa nuclear extract (20 ug) probed with Histone H3K4ac antibody (pAb) at 1 ug/ml. Lane 1: Acid extract of untreated HeLa cells. Lane 2: Acid extract of HeLa cells treated with sodium butyrate.



ChIP (Chromatin Immunoprecipitation)

Histone H3K4ac antibody (pAb) tested by ChIP-Seq Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit with 30 ug of HeLa cell chromatin and 10 ug of antibody. ChIP DNA was sequenced on the Illumina NextSeq and 16 million sequence tags were mapped to identify Histone H3K4ac binding sites on chromosome 7.

ADDITIONAL INFORMATION

Related Product Information for anti-H3K4ac antibody

Short Description: Our Histone H3K4ac 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). 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 acetylation is often associated with transcriptional activation. Lysine 4 of histone H3 can also be mono-, di- or trimethylated. This methylation is associated with transcriptional activation.

Product Categories/Family for anti-H3K4ac 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-h3k4ac-antibody-western-blot-dot-blot-chromatin-immunoprecipitation-chromatin-immunoprecipitation-elisa/60092>