

Rabbit Histone H3R17me2aK18ac Polyclonal Antibody | anti-H3R17me2aK18ac antibody

Histone H3R17me2aK18ac antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60055	Rabbit	Human, Mouse, Wide Range Predicted	Western Blot, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation

PRODUCT SYNONYMS

Histone H3R17me2aK18ac; Polyclonal Antibody; Histone H3R17me2aK18ac antibody (pAb); anti-H3R17me2aK18ac antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Wide Range Predicted
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Form/Format	Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-H3R17me2aK18ac antibody	WB (Western Blot), DB (Dot Blot), ChIP (Chromatin immunoprecipitation)
Conjugation	Acetylated, Methylated
Immunogen	This antibody was raised against a synthetic peptide containing asymmetric dimethyl arginine 17 and acetyl lysine 18 of human Histone H3.
Abs Residue	Arg, 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 H3R17me2aK18ac antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H3R17me2aK18ac antibody for asymmetric dimethyl-arginine 17 and acetyl-lysine 18 of histone H3. Peptides corresponding to the immunogen and related peptides were spotted onto PVDF and probed with H3R17me2aK18ac antibody at a 1:500 dilution. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: Peptide containing asymmetric dimethyl-Arg17 and acetyl-Lys18 of Histone H3 . Lane 2: unmodified Histone H3 peptide. Lane 3: Asymmetric dimethyl-Arg17 of Histone H3 peptide. Lane 4: Acetyl-Lys18 of Histone H3 peptide.



WB (Western Blot)

Histone H3R17me2aK18ac antibody (pAb) tested by Western blot. Nuclear extract of Raji cells (20 ug per lane) was probed with H3R17me2aK18ac (pAb) at a 1:500 dilution. Lane 1: Untreated cells. Lane 2: Cells treated with sodium butyrate.



ChIP (Chromatin Immunoprecipitation)

Histone H3R17me2aK18ac antibody (pAb) tested by ChIP. Chromatin immunoprecipitation (ChIP) was performed with 5 x 10⁶ cell equivalents of chromatin from a murine HAFTL pro-B cell line and 10 ul of Histone H3R17me2aK18ac antibody. ChIP DNA was used in qPCR with a negative control primer pair (Neg) or enhancer-specific primer pairs that are "off" in B cells (Cd14) or "on" in B cells (IL7r), as indicated. This data shows that the dual modification R17me2aK18ac on Histone H3 is enriched in active enhancers. The data are presented as Fold over Input.

ADDITIONAL INFORMATION

Related Product Information for anti-H3R17me2aK18ac antibody	<p>Short Description: Our Histone H3R17me2aK18ac 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 and Mouse samples, but it is predicted that it will react with a wide range of sample types.</p> <p>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). 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 residues. Acetylation of histones occurs on lysine and is typically associated with activation of gene expression. Co-occurrence of two modifications adds an additional layer of complexity and regulation to the function of these modifications. Dual modification of H3R17me2aK18ac may play a role in enhancer function.</p>
Product Categories/Family for anti-H3R17me2aK18ac antibody	Primary Antibodies

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/polyclonal/histone-h3r17me2ak18ac-antibody-western-blot-dot-blot-chromatin-immunoprecipitation-elisa/60055>