

Mouse Histone H4K5ac/K8ac Antibody | anti-H4K5ac/K8ac antibody

AbFlex Histone H4K5ac/K8ac antibody (rAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60292	Mouse	Wide Range Predicted	Western Blot, ELISA, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

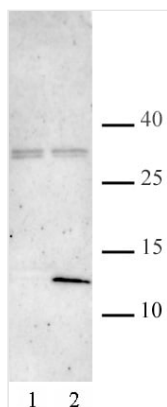
PRODUCT SYNONYMS

Histone H4K5ac/K8ac; AbFlex Histone H4K5ac/K8ac antibody (rAb); anti-H4K5ac/K8ac antibody

PRODUCT SPECIFICATIONS

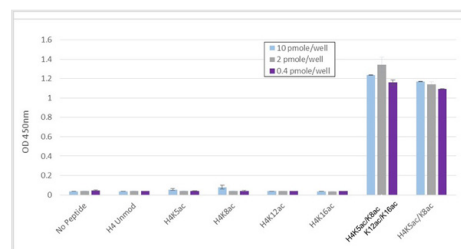
Host	Mouse
Reactivity	Wide Range Predicted
Isotype	IgG1
Purity/Purification	Protein A Chromatography
Form/Format	140mM Hepes, pH7.5, 70mM NaCl, 32mM NaOAc, 0.035% sodium azide, and 30% glycerol. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H4K5ac/K8ac antibody	WB (Western Blot), ELISA, DB (Dot Blot), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Antibody Type	Recombinant Antibody
Conjugation	Acetylated
Immunogen	This antibody was raised against a full-length human H4 protein containing acetyl K5 and K8 (H4K5acK8ac).
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



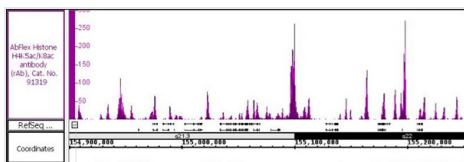
WB (Western Blot)

AbFlex Histone H4K5ac/K8ac recombinant antibody (rAb) tested by Western blot 20 ug of HeLa cell nuclear extract was run on SDS-PAGE and probed with AbFlex Histone H4K5ac/K8ac antibody at 2 ug/mL. Lane 1: nuclear extract from untreated cells. Lane 2: nuclear extract from cells treated with sodium butyrate.



ELISA

AbFlex Histone H4K5ac/K8ac recombinant antibody (rAb) specificity tested by ELISA 10, 2 or 0.4 pmole of various biotinylated Histone H4 peptides were captured in duplicate wells of a Streptavidin coated plates. 0.5ug/mL of Histone H4K5ac/K8ac antibody was added and detected using secondary anti-mouse HRP antibody. Histone H4K5ac/K8ac antibody recognizes peptide containing both K5ac and K8ac. The presence of additional K12 and K16 acetylation does not affect detection.



ChIP (Chromatin Immunoprecipitation)

AbFlex Histone H4K5ac/K8ac recombinant antibody (rAb) tested by ChIP-Seq Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit with 30 ug of HeLa cell chromatin and 4 ug of antibody. ChIP DNA was sequenced on the Illumina NextSeq and 6.7 million sequence tags were mapped to identify Histone H4K5ac/K8ac binding sites on chromosome 1.

ADDITIONAL INFORMATION

Related Product Information for anti-H4K5ac/K8ac 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 H4K5ac/K8ac antibody (rAb) was raised in a Mouse host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, Dot blot, ELISA and Western blot; 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 H4K5ac/K8ac antibody was expressed in 293 cells and contains mouse immunoglobulin heavy and light chains. Histone H4 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). Histone H1 is a linker histone, present at the interface between the nucleosome core and DNA entry/exit points; it is responsible for establishing higher-order chromatin structure. 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; they 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 H4 molecules acetylated at Lys5 or Lys8 are distributed in overlapping, but non-identical, islands throughout the euchromatic chromosome arms.
Product Categories/Family for anti-H4K5ac/K8ac antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	28173560
NCBI GeneID	121504
NCBI Accession #	NP_778224
NCBI GenBank Nucleotide #	NM_175054.2
UniProt Accession #	P62805; P02304; P02305; Q6DRA9; Q6FGB8; Q6NWP7; A2VCL0; Q0VAS5; Q6B823
Molecular Weight	11,367 Da
NCBI Official Full Name	histone H4
NCBI Official Synonym Full Names	histone cluster 4, H4
NCBI Official Symbol	HIST4H4

NCBI Official Synonym Symbols	H4/p; HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4H; HIST1H4I; HIST1H4J; HIST1H4K; HIST1H4L; HIST2H4A; HIST2H4B; MGC24116
NCBI Protein Information	histone H4; histone 4, H4; OTTHUMP00000239323
UniProt Protein Name	Histone H4
UniProt Gene Name	HIST1H4A
UniProt Synonym Gene Names	H4/A; H4FA
UniProt Entry Name	H4_HUMAN

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-antibody/histone-h4k5ac-k8ac/60292>