

Mouse Histone H4K20me3 Antibody | anti-H4K20me3 antibody

AbFlex Histone H4K20me3 antibody (rAb)

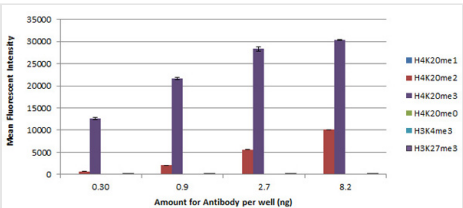
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60256	Mouse	Human, Wide Range Predicted	Western Blot, Immunofluorescence, Immunocytochemistry, ELISA, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

PRODUCT SYNONYMS

Histone H4K20me3; AbFlex Histone H4K20me3 antibody (rAb); anti-H4K20me3 antibody

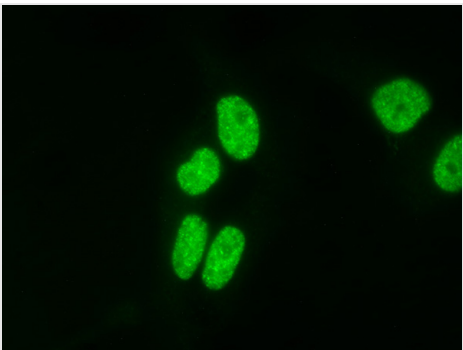
PRODUCT SPECIFICATIONS

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	0.82ug/ul (varies by lot)
Applicable Applications for anti-H4K20me3 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Antibody Type	Recombinant Antibody
Conjugation	Methylated
Immunogen	This Histone H4 trimethyl Lys20 antibody (rAb) was raised against a peptide containing trimethyl Lys20 of Histone H4.
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



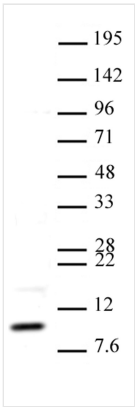
Application Data

AbFlex Histone H4K20me3 antibody (rAb) tested by Luminex bead-based specificity analysis. Luminex bead-based specificity analysis was used to confirm the specificity of AbFlex Histone H4K20me3 antibody (rAb) antibody for Histone H4K20me3. Various methyl-lysine H4 or H3 peptides were conjugated to MagPlex Luminex beads and incubated with various amounts of AbFlex Histone H4K20me3antibody (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.



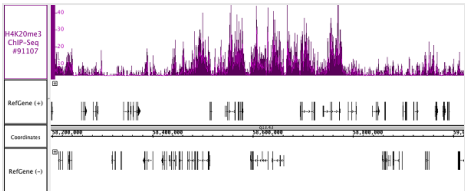
IF (Immunofluorescence)

AbFlex H4K20me3 antibody (rAb) tested by immunofluorescence. HeLa cell stained with 2ug /mL of AbFlex H4K20me3 antibody (rAb) followed by anti-mouse-IgG-488.



WB (Western Blot)

AbFlex Histone H4K20me3 antibody (rAb) tested by Western blot. HeLa nuclear extract (20 ug per lane) probed with AbFlex Histone H4K20me3 antibody (rAb)) (2 ug/ml dilution).



ChIP (Chromatin Immunoprecipitation)

AbFlex Histone H4K20me3 Antibody (rAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT High Sensitivity Kit with 30 ug of chromatin from T-47D, mammary epithelial ductal cells and 4 ug of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 20 million sequence tags were mapped to identify Histone H4K20me3 binding sites. The image shows binding across a region of chromosome 19.

ADDITIONAL INFORMATION

Related Product Information for anti-H4K20me3 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 H4K20me3 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 H4K20me3 antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in mammalian 293 cells. 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. Histone 4 lysine 20 (H4K20) can be mono-, di- or trimethylated by different histone methyltransferases such as NSD1 or ASH1. The methylation of this lysine is often associated with transcriptional repression.

NCBI AND UNIPROT INFORMATION

NCBI GI #	28173560
NCBI GeneID	121504
NCBI Accession #	NP_778224; AB_2793777
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.