

Mouse Histone H4K20me3 Monoclonal Antibody | anti-H4K20me3 antibody

Histone H4K20me3 antibody (mAb)(Clone 6F8-D9)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59912	Mouse	Human, Mouse, Wide Range Predicted	Western Blot, Immunocytochemistry, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation

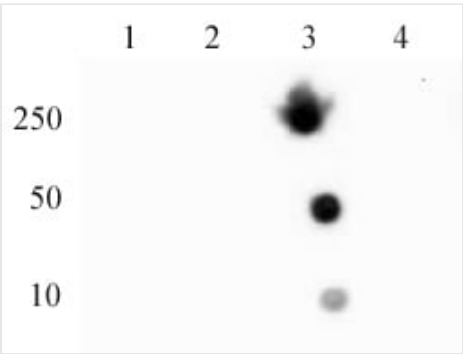
PRODUCT SYNONYMS

Histone H4K20me3; Monoclonal Antibody; Histone H4K20me3 antibody (mAb)(Clone 6F8-D9); anti-H4K20me3 antibody

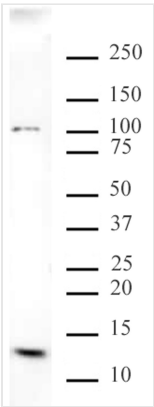
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Wide Range Predicted
Clonality	Monoclonal
Isotype	IgG
Clone Number	6F8-D9
Purity/Purification	Protein G Chromatography
Form/Format	Purified IgG in PBS with 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H4K20me3 antibody	WB (Western Blot), ICC (Immunocytochemistry), DB (Dot Blot), ChIP (Chromatin immunoprecipitation)
Conjugation	Methylated
Immunogen	This Histone H4 trimethyl Lys20 antibody (mAb) 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

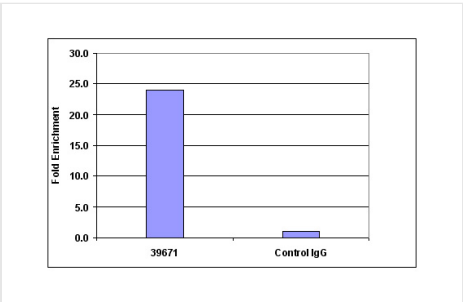
IMAGES



DB (Dot Blot)
Histone H4K20me3 antibody (mAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H4K20me3 antibody (mAb) for trimethyl-Lys20 of histone H4. Peptides were spotted onto PVDF and probed with antibody at a dilution of 0.2 ug/ml. The amount of peptide (in picomoles) spotted is indicated (2, 10, and 50). Column 1: H4K20me0. Column 2: H4K20me1. Column 3: H4K20me2. Column 4: H4K20me3.



WB (Western Blot)
Histone H4K20me3 antibody (mAb) (Clone 6F8-D9) tested by Western blot. HeLa nuclear extract (20 ug / lane) probed with Histone H4K20me3 antibody at 2 ug/ml.



ChIP (Chromatin Immunoprecipitation)
Histone H4 trimethyl Lys20 mAb (Clone 6F8-D9) tested by ChIP. Chromatin IP performed using the ChIP-IT Express Kit and HeLa chromatin (1.5 x 10⁶ cell equivalents per ChIP) using 5 ug of Histone H4 trimethyl Lys20 antibody (mAb) (Clone 6F8-D9) or the equivalent amount of rabbit IgG as a negative control. Real time, quantitative PCR (RT-qPCR) was performed on DNA purified from each of the ChIP reactions using a primer pair specific for human SAT- α repeats. Data are presented as Fold Enrichment of the ChIP antibody signal compared to the negative control IgG (which has been normalized to 1.0) using the ddCT method.

ADDITIONAL INFORMATION

Related Product Information for anti-H4K20me3 antibody	Short Description: Our Histone H4K20me3 antibody (mAb)(Clone 6F8-D9) was raised in a Mouse host. It has been validated for use in Chromatin Immunoprecipitation, Dot blot, Immunocytochemistry 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. Background: 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.
Product Categories/Family for anti-H4K20me3 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	28173560
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NCBI GeneID	121504
NCBI Accession #	NP_778224 ; AB_2650526
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/monoclonal/histone-h4k20me3-antibody-clone-6f8-d9-western-blot-immunocytochemistry-dot-blot-chromatin-immunoprecipitation-elisa/59912>