

Mouse Histone H4K20me2 Monoclonal Antibody | anti-H4K20me2 antibody

Histone H4K20me2 antibody (mAb)(Clone MABI 0422)

CATALOG # AAA60046	HOST Mouse	REACTIVITY Human, Wide Range Predicted	APPLICATIONS Western Blot, Dot Blot
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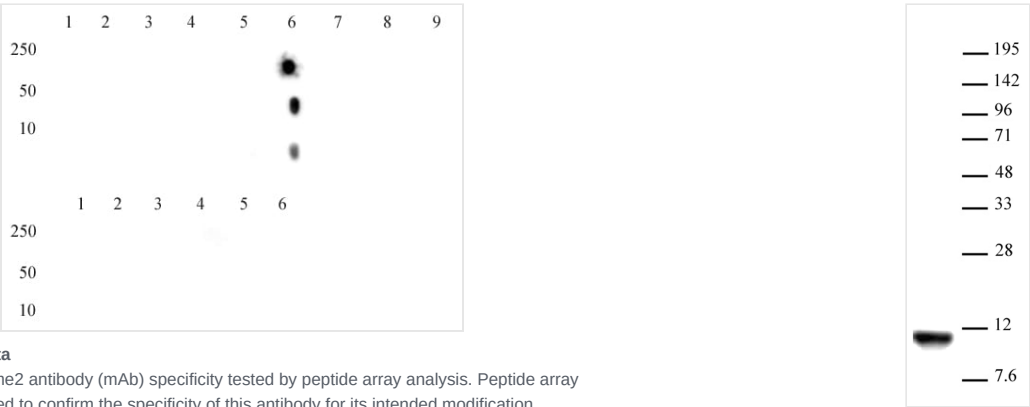
PRODUCT SYNONYMS

Histone H4K20me2; Monoclonal Antibody; Histone H4K20me2 antibody (mAb)(Clone MABI 0422); anti-H4K20me2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Wide Range Predicted
Clonality	Monoclonal
Isotype	IgG1
Clone Number	MABI 0422
Purity/Purification	Protein G 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-H4K20me2 antibody	WB (Western Blot), DB (Dot Blot)
Conjugation	Methylated
Immunogen	This antibody was raised against a synthetic peptide containing dimethyl-lysine 20 of human 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



Application Data

Histone H4K20me2 antibody (mAb) specificity tested by peptide array analysis. Peptide array analysis was used to confirm the specificity of this antibody for its intended modification. Histone H4K20me2 antibody (mAb) was applied at a dilution of 0.5 ug/ml to MODified Histone Peptide Array tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H4K20me2 antibody (mAb) for dimethyl-Lys20 of histone H4. Peptides corresponding to the immunogen and related peptides were spotted onto PVDF and probed with Histone H4K20me2 antibody (mAb) at 2 ug/ml. The amount of peptide (picomoles) spotted is indicated next to each row. Top panel: Lane 1: unmodified Lys79 peptide Lane 2: monomethyl-Lys79 H4 peptide Lane 3: dimethyl-Lys79 H4 peptide Lane 4: trimethyl-Lys79 H4 peptide Lane 5: monomethyl-Lys20 H4 peptide Lane 6: dimethyl-Lys20 H4 peptide Lane 7: trimethyl-Lys20 H4 peptide Lane 8: acetyl-Lys20 peptide Lane 9: unmodified Lys20 peptide Bottom panel: Lane 1: monomethyl-Lys31 H4 peptide Lane 2: dimethyl-Lys31 H4 peptide Lane 3: trimethyl-Lys31 H4 peptide Lane 4: monomethyl-Lys44 H4 peptide Lane 5: dimethyl-Lys44 H4 peptide Lane 6: trimethyl-Lys44 H4 peptide.

WB (Western Blot)

Histone H4K20me2 antibody (mAb) tested by Western blot. Nuclear extract (20 ug) of HeLa cells probed with the Histone H4K20me2 antibody (mAb) at 2 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-H4K20me2 antibody	Short Description: Our Histone H4K20me2 antibody (mAb)(Clone MABI 0422) was raised in a Mouse host. It has been validated for use in 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 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-H4K20me2 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	28173560
NCBI GeneID	121504
NCBI Accession #	NP_778224 ; AB_2650525
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-h4k20me2-antibody-clone-mabi-0422-western-blot-dot-blot-elisa/60046>