

Mouse Histone H3K36me3 Monoclonal Antibody | anti-H3K36me3 antibody

Histone H3K36me3 antibody (mAb)(Clone MABI 0333)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59968	Mouse	Human, Mouse, Wide Range Predicted	Western Blot, Immunofluorescence, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

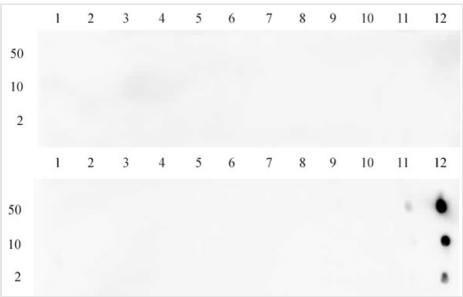
PRODUCT SYNONYMS

Histone H3K36me3; Monoclonal Antibody; Histone H3K36me3 antibody (mAb)(Clone MABI 0333); anti-H3K36me3 antibody

PRODUCT SPECIFICATIONS

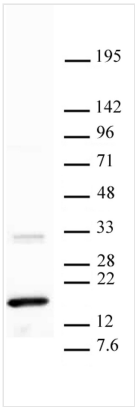
Host	Mouse
Reactivity	Human, Mouse, Wide Range Predicted
Clonality	Monoclonal
Isotype	IgG1
Clone Number	MABI 0333
Purity/Purification	Protein G Chromatography
Form/Format	PBS pH7.5 containing 30% glycerol, 0.3 M NaCl, and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3K36me3 antibody	WB (Western Blot), IF (Immunofluorescence), DB (Dot Blot), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Conjugation	Methylated
Immunogen	This Histone H3 trimethyl Lys36 antibody was raised against a peptide containing trimethyl Lys36 of human Histone H3.
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



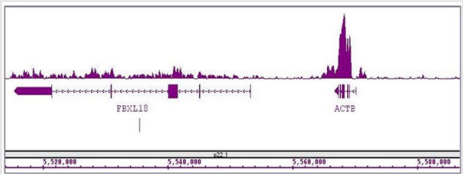
DB (Dot Blot)

Histone H3K36me3 antibody (mAb) tested by dot blot. Dot blot analysis was used to confirm the specificity of Histone H3K36me3 antibody for trimethyl Lys36 of histone H3. Recombinant methylated proteins corresponding to the immunogen and related sequences were spotted onto PVDF and probed with Histone H3K36me3 at 2 ug/ml. The amount of protein (picomoles) spotted is indicated next to each row. Top panel - Lane 1: unmodified H3 Lys4. Lane 2: H3K4me1. Lane 3: H3K4me2. Lane 4: H3K4me3. Lane 5: unmodified H3 Lys9. Lane 6: H3K9me1. Lane 7: H3K9me2. Lane 8: H3K9me3. Lane 9: unmodified H3 Lys79. Lane 10: H3K79me1. Lane 11: H3K79me2. Lane 12: H3K79me3. Bottom panel - Lane 1: unmodified H3 Lys23. Lane 2: H3K23me1. Lane 3: H3K23me2. Lane 4: H3K23me3. Lane 5: unmodified H3 Lys27. Lane 6: H3K27me1. Lane 7: H3K27me2. Lane 8: H3K27me3. Lane 9: unmodified H3 Lys36. Lane 10: H3K36me1. Lane 11: H3K36me2. Lane 12: H3K36me3.



WB (Western Blot)

Histone H3K36me3 antibody (mAb) tested by Western blot HeLa nuclear extract (20 ug per lane) probed with Histone H3 trimethyl Lys36 antibody (2 ug/ml dilution).



ChIP (Chromatin Immunoprecipitation)

Histone H3K36me3 antibody (mAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT High Sensitivity Kit with 15 ug of chromatin from a human medulloblastoma cell line and 4 ug of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 15 million sequence tags were mapped to identify Histone H3K36me3 binding sites. The image shows binding across a region of chromosome 7. You can view the complete data set in the UCSC Genome Browser, starting at this specific location, here.

ADDITIONAL INFORMATION

Related Product Information for anti-H3K36me3 antibody	Short Description: Our Histone H3K36me3 antibody (mAb)(Clone MAB1 0333) was raised in a Mouse host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, Dot blot, Immunofluorescence 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 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). 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; 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 residue. Histone H3 is methylated at lysine 36 by the Set2 (yeast) and NSD1 (mammals) methyltransferases. Dimethylation of lysine 36 of histone H3 is involved with transcriptional elongation by RNA pol II holoenzyme and is a marker of transcribed genes.
Product Categories/Family for anti-H3K36me3 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/monoclonal/histone-h3k36me3-antibody-clone-mabi-0333-western-blot-immunofluorescence-dot-blot-chromatin-immunoprecipitation-chromatin-immunoprecipitation-elisa/59968>