

Mouse Histone H3 Monoclonal Antibody | anti-H3 antibody

Histone H3 antibody (mAb)(Clone MABI 0301)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59812	Mouse	Human, Wide Range Predicted	Western Blot, Immunofluorescence, Immunocytochemistry, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

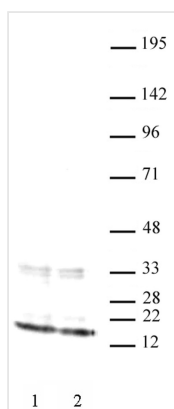
PRODUCT SYNONYMS

Histone H3; Monoclonal Antibody; Histone H3 antibody (mAb)(Clone MABI 0301); anti-H3 antibody

PRODUCT SPECIFICATIONS

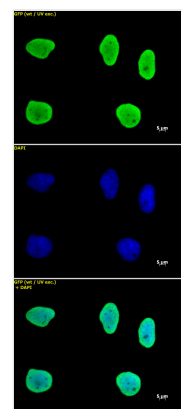
Host	Mouse
Reactivity	Human, Wide Range Predicted
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	MABI 0301
Purity/Purification	Protein G Chromatography
Form/Format	PBS pH7.5 containing 30% glycerol. 0.3M NaCl, and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Immunogen	This Histone H3 antibody (mAb) was raised against a peptide containing the N-terminus of histone H3.
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



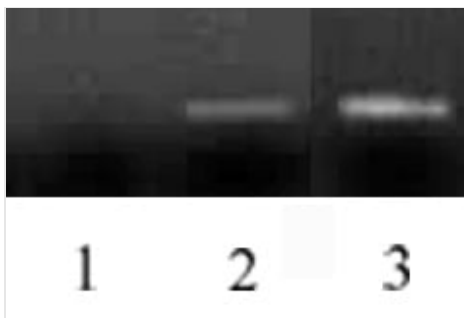
WB (Western Blot)

Histone H3 antibody (mAb) tested by Western blot. HeLa nuclear extract (20 ug per lane) probed with Histone H3 antibody (mAb) at a dilution of 2 ug/ml. Lane 1: Nuclear extract of untreated HeLa cells. Lane 2: Nuclear extract of HeLa cells treated with sodium butyrate.



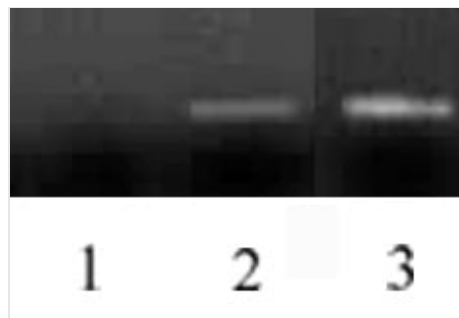
IF (Immunofluorescence)

Histone H3 antibody (mAb) tested by immunofluorescence. HeLa cells stained with Histone H3 antibody (mAb) at a dilution of 1 ug/ml.



ChIP (Chromatin Immunoprecipitation)

Histone H3 antibody (mAb) tested by ChIP. ChIP performed on Ready-to-ChIP HeLa cell chromatin using Histone H3 antibody (mAb). PCR was performed using primers specific for the promoter region of the human GAPDH gene. Lane 1: ChIP using mouse IgG as a negative control. Lane 2: ChIP using 10 ug of Histone H3 antibody (mAb). Lane 3: Input DNA control.



ChIP (Chromatin Immunoprecipitation)

Histone H3 antibody (mAb) tested by ChIP-Seq. Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit with 30 ug of chromatin from Farage human lymph-node derived B cells and 4 ug Histone H3 antibody. ChIP DNA was sequenced on the Illumina HiSeq and 17.7 million sequence tags were mapped to identify Histone H3 binding sites.

ADDITIONAL INFORMATION

Related Product Information for anti-H3 antibody

Short Description: Our Histone H3 antibody (mAb)(Clone MABI 0301) was raised in a Mouse host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, 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: 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). Histone H1 is a linker histone, present at the interface between the nucleosome core and DNA entry/exit points. Histone H1 is responsible for establishing higher-order chromatin structure. Each histone contains two domains. First, a main globular domain (C-terminal) forming the core of the nucleosome is involved in histone-histone interactions and in binding to the DNA. Secondly, an N-terminal tail is subject to post-translational modifications. 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.

Product Categories/Family for anti-H3 antibody

Primary Antibodies

NCBI AND UNIPROT INFORMATION

Molecular Weight

17kDa

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-h3-antibody-clone-mabi-0301-western-blot-immunofluorescence-immunocytochemistry-chromatin-immunoprecipitation-chromatin-immunoprecipitation-elisa/59812>