

Mouse anti-Human Histone H3.3 Antibody | anti-H3.3 antibody

AbFlex Histone H3.3 antibody (rAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60269	Mouse	Human	Western Blot, Chromatin Immunoprecipitation, Immunoprecipitation

PRODUCT SYNONYMS

Histone H3.3; AbFlex Histone H3.3 antibody (rAb); anti-H3.3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Isotype	IgG2a
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in 140mM Hepes, pH7.5, 70mM NaCl, 32mM NaOAc, 0.035% sodium azide, 30% glycerol. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3.3 antibody	WB (Western Blot), ChIP (Chromatin immunoprecipitation)
Antibody Type	Recombinant Antibody
Immunogen	This antibody was raised against a peptide corresponding to amino acids 21-39 of human Histone H3.3.
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



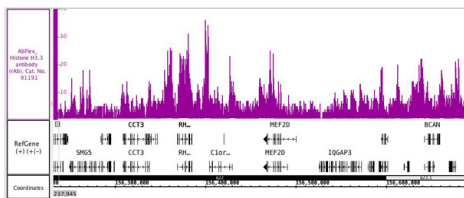
WB (Western Blot)

AbFlex Histone H3.3 antibody (rAb) tested by Western Blot Lane 1: 250 ng of Recombinant Histone H3.1; Lane 2: 250 ng of Recombinant Histone H3.3. Proteins were run on SDS-PAGE, transferred to nitrocellulose and stained with Ponceau S (lower panel) or probed with AbFlex Histone H3.3 antibody (upper panel). The AbFlex antibody only detects, and is specific for, Histone H3.3 as seen by a band at 17 kDa. For optimal results, primary antibody incubations should be performed at room temperature. The addition of 0.1% Tween 20 to all Blotto solutions may also reduce background. Individual optimization may be required.



WB (Western Blot)

AbFlex Histone H3.3 antibody (rAb) tested by Western blot. 20 ug of HeLa cell nuclear extract was run on an SDS-PAGE gel and probed with 2 ug/ml AbFlex Histone H3.3 antibody. MW: 17 kDa



ChIP (Chromatin Immunoprecipitation)

ChIP-Seq of AbFlex Histone H3.3 antibody (rAb) ChIP was performed using the ChIP-IT High Sensitivity Kit with 30 ug of chromatin from brain tumor cell cells and 4 ug of AbFlex Histone H3.3 antibody. ChIP DNA was sequenced on the Illumina HiSeq and 15.1 million sequence tags were mapped to identify Histone H3.3 binding sites. The image shows binding across a region of chromosome 1.

ADDITIONAL INFORMATION

Related Product Information for anti-H3.3 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 H3.3 antibody (rAb) was raised in a Mouse host. It has been validated for use in ChIP-Seq and Western blot; it has been shown to react with Human samples.

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 H3.3 antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in mammalian 293 cells. Histone H3.1 and Histone H3.3 are the two main Histone H3 variants found in plants and animals. They are known to be important for gene regulation. Histone H3.1 and H3.3 have been shown to demonstrate unique genomic localization patterns thought to be associated with their specific functions in regulation of gene activity. Specifically, Histone H3.1 localization is found to coincide with genomic regions containing chromatin repressive marks (H3K9me3, H3K27me3 and DNA methylation), whereas Histone H3.3 primarily colocalizes with marks associated with gene activation (H3K4me3, H2BK120ub1, and RNA pol II occupancy). Deposition of the Histone H3.1 variant into the nucleosome correlates with the canonical DNA synthesis-dependent deposition pathway, whereas Histone H3.3 primarily serves as the replacement Histone H3 variant outside of S-phase, such as during gene transcription. Aberrant localization of these variants is also known to correlate with certain cancers.

Product Categories/Family for anti-H3.3 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/mouse-human-antibody/histone-h3-3/60269>