

Rabbit Histone H3K27me3 Polyclonal Antibody | anti-H3K27me3 antibody

Histone H3K27me3 antibody (pAb)

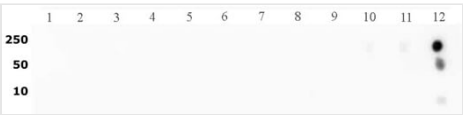
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59805	Rabbit	Human, Mouse, Wide Range Predicted	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

PRODUCT SYNONYMS

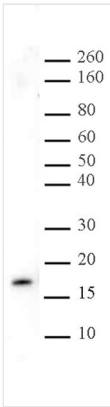
Histone H3K27me3; Polyclonal Antibody; Histone H3K27me3 antibody (pAb); anti-H3K27me3 antibody

PRODUCT SPECIFICATIONS

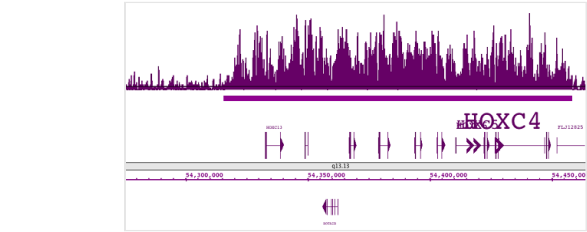
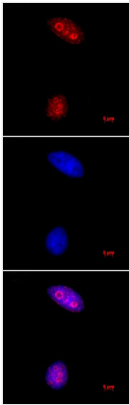
Host	Rabbit
Reactivity	Human, Mouse, Wide Range Predicted
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in PBS (pH7.5) with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic. For your convenience, an unpurified serum version of this antibody is also available.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3K27me3 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), DB (Dot Blot), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Conjugation	Methylated
Immunogen	This antibody was raised against a peptide including trimethyl-lysine 27 of 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



Application Data
Histone H3 trimethyl Lys27 antibody specificity tested by peptide array analysis. Peptide array analysis was used to confirm the specificity of this antibody for its intended modification. Histone H3 trimethyl Lys27 antibody was applied at a dilution of 1:5,000 to MODified Histone Peptide Array tested by dot blot analysis. Dot blot was used to confirm specificity of Histone H3K27me3 pAb. Peptides corresponding to regions around major sites of histone H3 methylation (lysine 4, lysine 9, lysine 27) were spotted onto PVDF and probed with antibody at 2 ug/ml. The amount of peptide (in picomoles) spotted is indicated next to each row. Top panel - Lane 1: unmodified H3K4. Lane 2: H3K4me1. Lane 3: H3K4me2. Lane 4: H3K4me3. Lane 5: unmodified H3K9. Lane 6: H3K9me1. Lane 7: H3K9me2. Lane 8: H3K9me3. Lane 9: unmodified H3K79. Lane 10: H3K79me1. Lane 11: H3K79me2. Lane 12: H3K79me3. Bottom panel - Lane 1: unmodified H3K23. Lane 2: H3K23me1. Lane 3: H3K23me3. Lane 4: H3K23me3. Lane 5: unmodified H3K27. Lane 6: H3K27me1. Lane 7: H3K27me2. Lane 8: H3K27me3. Lane 9: unmodified H3K36. Lane 10: H3K36me1. Lane 11: H3K36me2. Lane 12: H3K36me3.



WB (Western Blot)
Histone H3K27me3 pAb tested by Western blot. HeLa cell nuclear extract (20 ug) probed with Histone H3K27me3 pAb at 1 ug/ml.



ChIP (Chromatin Immunoprecipitation)
Histone H3K27me3 pAb tested by ChIP-Seq. ChIP was performed using chromatin from the human iPS 19.11 cell line. ChIP DNA was sequenced on the Illumina GA II and sequence tags were mapped to identify H3K27me3 binding. The image shows H3K27me3 binding across a 140,000 bp region of the HOXC gene cluster on chromosome 12.

IF (Immunofluorescence)
Histone H3K27me3 pAb tested by immunofluorescence. HeLa cells stained with Histone H3 trimethyl Lys27 antibody (1.7 ug/ml dilution). Top panel: Histone H3 trimethyl Lys27 antibody. Middle: DAPI. Bottom: Merge of both images.

ADDITIONAL INFORMATION

Related Product Information for anti-H3K27me3 antibody	Short Description: Our Histone H3K27me3 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, CUT&Tag, Dot blot, Immunocytochemistry, Immunofluorescence, Immunohistochemistry 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). 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 H3K27 can be mono-, di- or trimethylated by different histone methyltransferases, such as EZH2 or NSD3. While histone methylation can be associated with transcriptional activation or repression, methylation of Lysine 27 of histone H3 is mainly associated with transcriptional repression.
Product Categories/Family for anti-H3K27me3 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/polyclonal/histone-h3k27me3-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-dot-blot-chromatin-immunoprecipitation-chromatin-immunoprecipitation-elisa/59805>