

Rabbit Histone H3K27me3 Polyclonal Antibody | anti-H3K27me3 antibody

Histone H3K27me3 antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59843	Rabbit	Human, Mouse, Wide Range Predicted	Western Blot, Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation

PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

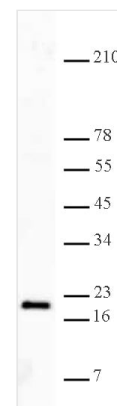
Host	Rabbit
Reactivity	Human, Mouse, Wide Range Predicted
Clonality	Polyclonal
Form/Format	Rabbit serum containing 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic. For your convenience, an IgG version of this antibody that was purified by Protein A Chromatography is also available.
Applicable Applications for anti-H3K27me3 antibody	WB (Western Blot), IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), DB (Dot Blot), ChIP (Chromatin immunoprecipitation)
Conjugation	Methylated
Immunogen	This Histone H3 trimethyl Lys27 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

IMAGES



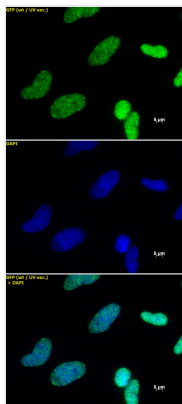
DB (Dot Blot)

Histone H3K27me3 antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H3 trimethyl Lys27 antibody for trimethyl-lysine 27 of histone H3. Peptides corresponding to regions around major sites of histone H3 methylation (lysine 4, lysine 9, lysine 27) were spotted onto PVDF and probed with the antibody at a dilution of 1:5,000. The amount of peptide (in picomoles) spotted is indicated next to each row. Lane 1: Unmodified Lys4 peptide. Lane 2: Monomethyl Lys4 peptide. Lane 3: Dimethyl Lys4 peptide. Lane 4: Trimethyl Lys4 peptide. Lane 5: Monomethyl Lys9 peptide. Lane 6: Unmodified Lys9 peptide. Lane 7: Dimethyl Lys9 peptide. Lane 8: Trimethyl Lys9 peptide. Lane 9: Unmodified Lys27 peptide. Lane 10: Monomethyl Lys27 peptide. Lane 11: Dimethyl Lys27 peptide. Lane 12: Trimethyl Lys27 peptide.



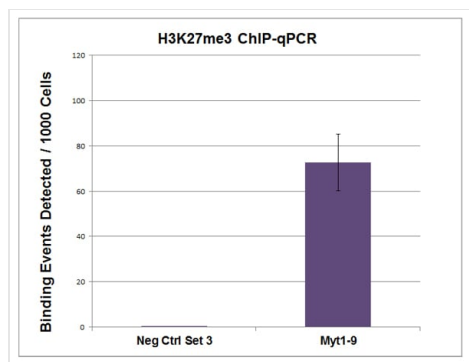
WB (Western Blot)

Histone H3K27me3 antibody (pAb) tested by Western blot. HeLa acid extract (10 ug) was probed with Histone H3 trimethyl Lys27 antibody (1:5,000 dilution).



IF (Immunofluorescence)

Histone H3K27me3 antibody (pAb) tested by immunofluorescence. Staining of HeLa cells with Histone H3 trimethyl Lys27 antibody (1:1,000, top panel) and DAPI (middle panel), and a merge of both images (bottom panel).



ChIP (Chromatin Immunoprecipitation)

Histone H3K27me3 antibody (pAb) tested by ChIP. Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit with 15 ug of chromatin from HeLa cells and 5 ul H3K27me3 antibody. ChIP DNA was used in qPCR with the control primer pairs or gene-specific primer pairs as indicated. Data are presented as Binding Events Detected per 1000 Cells using Epigenetic Services normalization scheme which accounts for primer efficiency and the amount of chromatin used in the ChIP reaction.

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, Dot blot, Immunocytochemistry, Immunofluorescence, Immunoprecipitation 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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/histone-h3k27me3-antibody-western-blot-immunoprecipitation-immunofluorescence-immunocytochemistry-dot-blot-chromatin-immunoprecipitation-elisa/59843>