

Rabbit H3K27me3 Antibody | anti-H3K27me3 antibody

Histone H3K27me3 Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA10664	Rabbit	Human, Mouse, Rat, Other (Wide Range)	Western Blot, Immunohistochemistry, Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

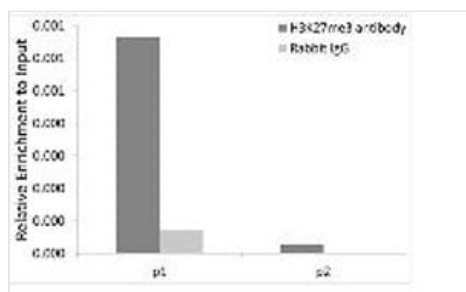
PRODUCT SYNONYMS

H3K27me3; Histone H3K27me3 Polyclonal Antibody; TriMethyl-Histone H3-K27: HIST1H3J; H3/j; H3FJ; Histone H3.1; Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/i; Histone H3/j; Histone H3/k; Histone H3/l; HIST3H3; anti-H3K27me3 antibody

PRODUCT SPECIFICATIONS

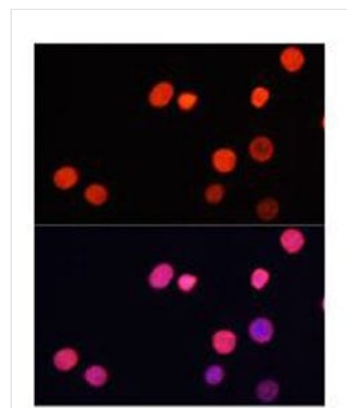
Host	Rabbit
Reactivity	Human, Mouse, Rat, Other (Wide Range)
Isotype	IgG
Purity/Purification	Affinity Purification
Sequence Length	136
Applicable Applications for anti-H3K27me3 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), IP (Immunoprecipitation), ChIP (Chromatin Immunoprecipitation), ChIP (Chromatin Immunoprecipitation)
Application Notes	WB: 1:500 - 1:2000 IHC: 1:50 - 1:200 IF: 1:50 - 1:200 IP: 1:50 - 1:200 ChIP: 1:20 - 1:100
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Immunogen	A synthetic methylated peptide corresponding to residues surrounding K27 of human histone H3
Calculated Molecular Weight	15kDa
Preparation and Storage	Store at -20°C. Avoid freeze / thaw cycles.

IMAGES



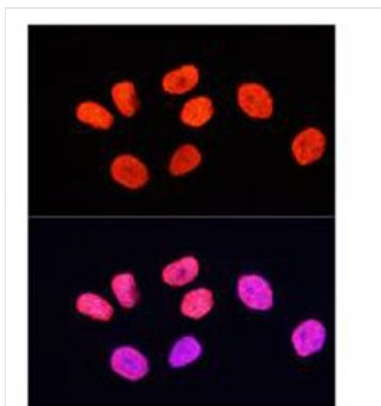
Application Data

Chromatin immunoprecipitation analysis of 293T cells using TriMethyl-Histone H3-K27 antibody AAA10664 and rabbit IgG. P1 and P2 were located at ANO2 gene. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by ratios of the immunoprecipitated DNA to the input.



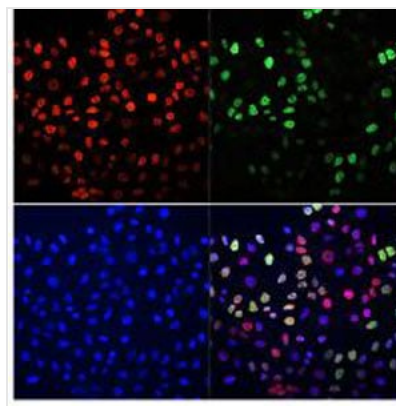
IF (Immunofluorescence)

Immunofluorescence analysis of C6 cells using TriMethyl-Histone H3-K27 antibody AAA10664 at dilution of 1:100. Blue : DAPI for nuclear staining



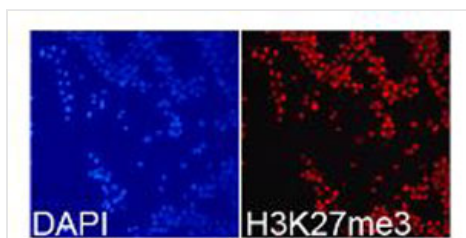
IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells using TryMethyl-Histone H3-K27 antibody AAA10664 at dilution of 1:100. Blue : DAPI for nuclear staining



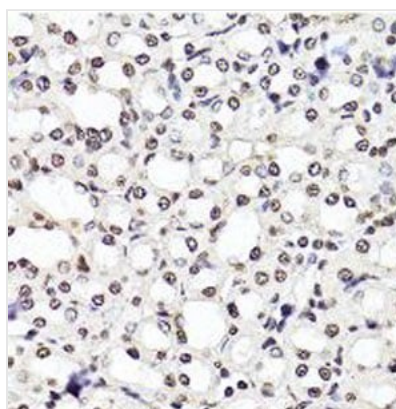
IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells using TryMethyl-Histone H3-K27 antibody red AAA10664 and BrdU antibody green Blue: DAPI for nuclear staining



IF (Immunofluorescence)

Immunofluorescence analysis of 293T Cell using TryMethyl-Histone H3-K27 antibody (AAA10664), Blue DAPI for nuclear staining



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse kidney using TryMethyl-Histone H3-K27 antibody AAA10664 at dilution of 1:100 (40x lens)

ADDITIONAL INFORMATION

Related Product Information for anti-H3K27me3 antibody

Modulation of chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of DNA wound around eight core histone proteins (two each of H2A, H2B, H3, and H4), is the primary building block of chromatin (1). The amino-terminal tails of core histones undergo various post-translational modifications, including acetylation, phosphorylation, methylation, and ubiquitination (2-5). These modifications occur in response to various stimuli and have a direct effect on the accessibility of chromatin to transcription factors and, therefore, gene expression (6). In most species, histone H2B is primarily acetylated at Lys5, 12, 15, and 20 (4,7). Histone H3 is primarily acetylated at Lys9, 14, 18, 23, 27, and 56. Acetylation of H3 at Lys9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms (2,3). Phosphorylation at Ser10, Ser28, and Thr11 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis (8-10). Phosphorylation at Thr3 of histone H3 is highly conserved among many species and is catalyzed by the kinase haspin. Immunostaining with phospho-specific antibodies in mammalian cells reveals mitotic phosphorylation at Thr3 of H3 in prophase and its dephosphorylation during anaphase (11).

Product Categories/Family for anti-H3K27me3 antibody

[Methylation](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	18202512
NCBI GeneID	8290
UniProt Accession #	Q16695 ; Q6FGU4 ; B2R5K3
NCBI Official Full Name	Histone H3.1t

NCBI Official Synonym Full Names	histone cluster 3, H3
NCBI Official Symbol	HIST3H3
NCBI Official Synonym Symbols	H3t; H3.4; H3/g; H3FT
NCBI Protein Information	histone H3.1t; H3/t; histone 3, H3; H3 histone family, member T
UniProt Protein Name	Histone H3.1t
UniProt Gene Name	HIST3H3
UniProt Synonym Gene Names	H3FT; H3/t; H3t
UniProt Entry Name	H31T_HUMAN

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/rabbit-human-mouse-rat-antibody/h3k27me3/10664>