# TriMethyl-Histone H3-K27 Rabbit mAb

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Catalog No.: A22006 Recombinant

## **Basic Information**

## **Observed MW**

17 kDa

## **Calculated MW**

15 kDa

## Category

Primary antibody

## **Applications**

WB, DB, IHC-P,IF/ICC,IP,ELISA,ChIP,CUT&Tag

## **Cross-Reactivity**

Human, Mouse, Rat, Other (Wide Range Predicted)

## CloneNo number

ARC54169

## **Background**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

## **Recommended Dilutions**

**WB** 1:10000 - 1:40000 1:2000 - 1:20000 DB IHC-P 1:500 - 1:3000 1:200 - 1:1000 IF/ICC 0.5μg-4μg antibody for 200µg-600µg extracts of whole cells

**ELISA** concentration is 1 µg/mL. Please optimize the

concentration based on your specific assay requirements.

Recommended starting

5µg antibody for ChIP 5μg-10μg of Chromatin

105 cells /1 μg **CUT&Tag** 

## **Immunogen Information**

Gene ID	Swiss Prot	
8290/8350	Q16695/P68431	

#### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

## **Synonyms**

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; TriMethyl-Histone H3-K27

## **Product Information**

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

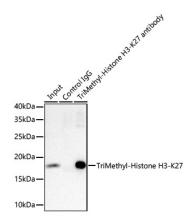
#### Storage

Store at -20°C. Avoid freeze / thaw cycles.

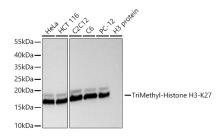
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Contact

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$\bowtie$	cn.market@abclonal.com.cr
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Immunoprecipitation of TriMethyl-Histone H3-K27 from 600 µg extracts of 293F cells was performed using 5 µg of TriMethyl-Histone H3-K27 Rabbit mAb (A22006). Rabbit IgG isotype control (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using TriMethyl-Histone H3-K27 Rabbit mAb (A22006) at a dilution of 1:20000.



Western blot analysis of various lysates using TriMethyl-Histone H3-K27 Rabbit mAb (A22006) at 1:11000 dilution incubated overnight at  $4^{\circ}$ C.

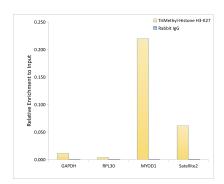
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 μg per lane.

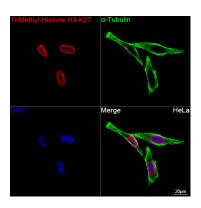
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020). Negative control (NC): H3 protein

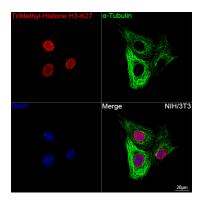
Exposure time: 30s.



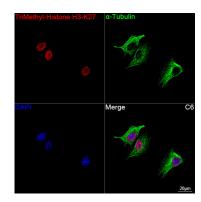
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using TriMethyl-Histone H3-K27 antibody (A22006) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Confocal imaging of HeLa cells using TriMethyl-Histone H3-K27 Rabbit mAb (A22006, dilution 1:200) followed by a

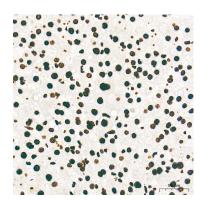


Confocal imaging of NIH/3T3 cells using TriMethyl-Histone H3-K27 Rabbit mAb (A22006, dilution 1:200) followed by a

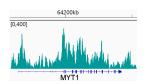


Confocal imaging of C6 cells using TriMethyl-Histone H3-K27 Rabbit mAb (A22006, dilution 1:200) followed by a further

further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

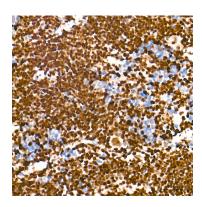


Immunohistochemistry analysis of paraffinembedded Human liver tissue using TriMethyl-Histone H3-K27 Rabbit mAb (A22006) at a dilution of 1:700 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

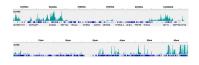


CUT&Tag was performed using the CUT&Tag Assay Kit(pAG-Tn5) forlllumina (RK20265) from 10<sup>5</sup> Hela cells with 1µg Tri-Methyl-Histone H3-K27 Rabbit mAb(A22006), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of H3K27me3 in representative gene loci(MYT1).

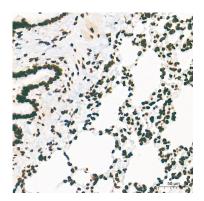
further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha\text{-}Tubulin$  Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffinembedded Mouse spleen tissue using TriMethyl-Histone H3-K27 Rabbit mAb (A22006) at a dilution of 1:700 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffinembedded Rat lung tissue using TriMethyl-Histone H3-K27 Rabbit mAb (A22006) at a dilution of 1:700 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

CUT&Tag was performed using the CUT&Tag Assay Kit(pAG-Tn5) forlllumina (RK20265) from  $10^5$  Hela cells with  $1\mu g$  Tri-Methyl-Histone H3-K27 Rabbit mAb(A22006), along with a Goat Anti-Rabbit  $1\mu g$ G(H+L). The CUT&Tag results indicate the enrichment pattern of H3K27me3 in representative gene loci(MYT1).