

TriMethyl-Histone H3-K27 Rabbit mAb

Catalog No.: A22006 **Recombinant**

Basic Information

Observed MW

17kd

Calculated MW

16kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

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

CloneNo number

ARC54169

Recommended Dilutions

WB 1:10000 - 1:160000

DB 1:2000 - 1:20000

IF/ICC 1:500 - 1:1000

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

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

CUT&Tag 10⁵ cells /1 µg

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.

Immunogen Information

Gene ID

8290/8350

Swiss Prot

Q16695/P68431

Immunogen

A synthetic trimethylated peptide around K27 of human Histone H3 (NP_003520.1).

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

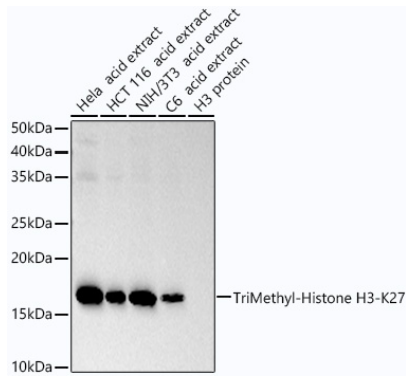
Contact

 | 400-999-6126

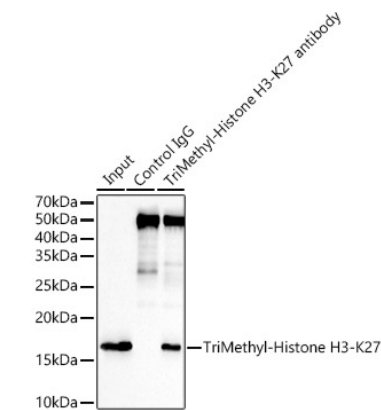
 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

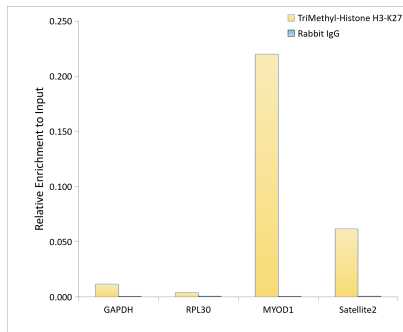
Validation Data



Western blot analysis of various lysates using TriMethyl-Histone H3-K27 Rabbit mAb (A22006) at 1:139000 dilution.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 90s.

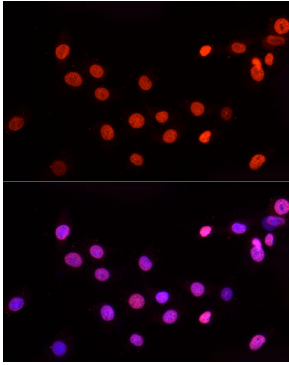


Immunoprecipitation analysis of 600 µg extracts of 293F cells using 5 µg TriMethyl-Histone H3-K27 Rabbit mAb (A22006). Western blot was performed from the immunoprecipitate using TriMethyl-Histone H3-K27 Rabbit mAb (A22006) at a dilution of 1:200000.

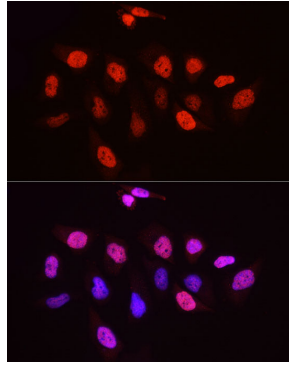


Chromatin immunoprecipitation analysis of extracts of HeLa cells, using TriMethyl-Histone H3-K27 antibody (A22006) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

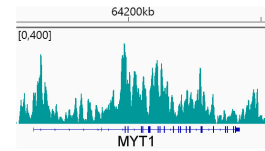
Validation Data



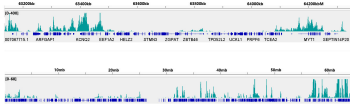
Immunofluorescence analysis of C6 cells using TriMethyl-Histone H3-K27 Rabbit mAb (A22006) at dilution of 1:600 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using TriMethyl-Histone H3-K27 Rabbit mAb (A22006) at dilution of 1:600 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



CUT&Tag was performed using the CUT&Tag Assay Kit(pAG-Tn5) for Illumina (RK20265) from 10^5 HeLa cells with $1\mu\text{g}$ 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).



CUT&Tag was performed using the CUT&Tag Assay Kit(pAG-Tn5) for Illumina (RK20265) from 10^5 HeLa cells with $1\mu\text{g}$ 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).