

TriMethyl-Histone H3-K27 Mouse mAb

Catalog No.: A16199 **12 Publications**

Basic Information

Observed MW

17kDa

Calculated MW

16kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

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

CloneNo number

AMC0015

Recommended Dilutions

WB 1:500 - 1:1000

DB 1:500 - 1:2000

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:200

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

8350

Swiss Prot

P68431

Immunogen

A synthetic methylated peptide corresponding to residues surrounding K27 of human histone H3

Synonyms

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

Product Information

Source

Mouse

Isotype

IgG1,kappa

Purification

Affinity purification

Storage

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

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

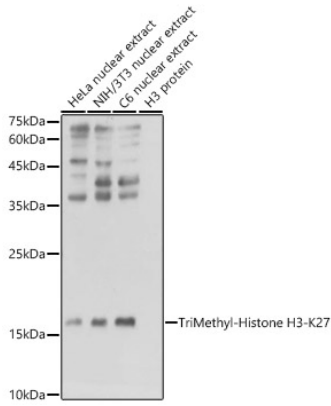
Contact

 | 400-999-6126

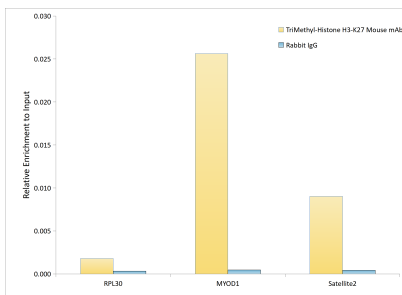
 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

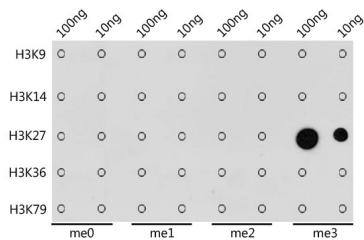
Validation Data



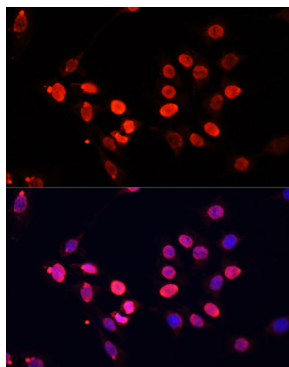
Western blot analysis of various lysates using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at 1:1000 dilution.
 Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
 Lysates/proteins: 25µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 5s.



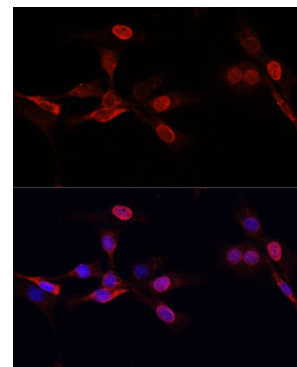
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using TriMethyl-Histone H3-K27 Mouse mAb antibody (A16199) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



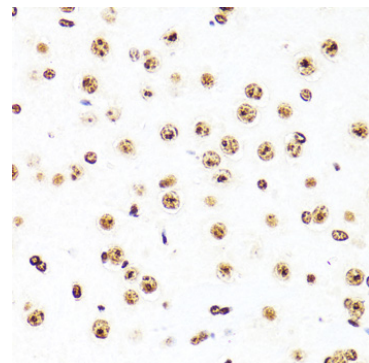
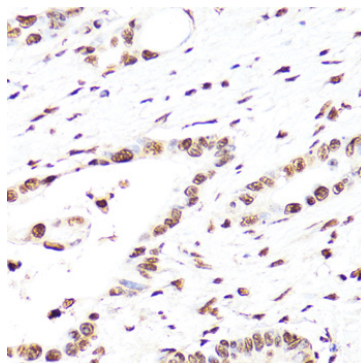
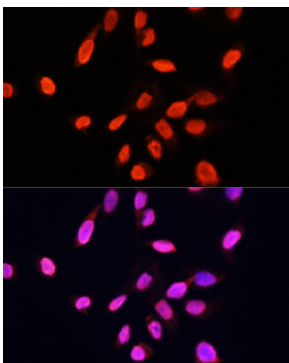
Dot-blot analysis of all sorts of methylation peptides using TriMethyl-Histone H3-K27 antibody (A16199) at 1:1000 dilution.



Immunofluorescence analysis of C6 cells using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at dilution of 1:25. Blue: DAPI for nuclear staining.

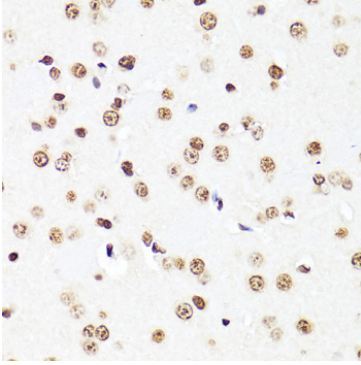


Immunofluorescence analysis of NIH/3T3 cells using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at dilution of 1:25. Blue: DAPI for nuclear staining.



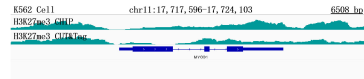
Validation Data

Immunofluorescence analysis of U-2OS cells using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at dilution of 1:25. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at dilution of 1:25 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at dilution of 1:25 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10^5 K562 cells with $1 \mu\text{g}$ TriMethyl-Histone H3-K27 Mouse mAb antibody (A16199), along with a Goat Anti-Mouse IgG (H+L). The CUT&Tag results indicate the enrichment pattern of TriMethyl-Histone H3-K27 in representative gene loci (MYO10), as shown in figure.

Immunohistochemistry analysis of paraffin-embedded Mouse brain using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at dilution of 1:25 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.