

TriMethyl-Histone H3-K27 Mouse mAb

Catalog No.: A16199 **15 Publications**

Basic Information

Observed MW

17 kDa

Calculated MW

15 kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

AMC0015

Recommended Dilutions

WB 1:2000 - 1:10000

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:200

DB 1:500 - 1:2000

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

CUT&Tag 10⁵ cells /1 µg

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

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

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

Mouse

Isotype

IgG1, kappa

Purification

Affinity purification

Storage

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

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

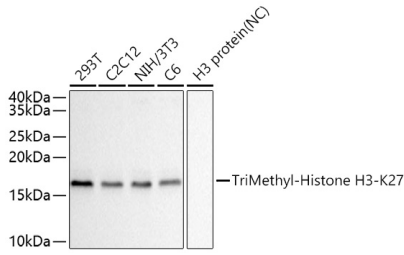
Contact

 | 400-999-6126

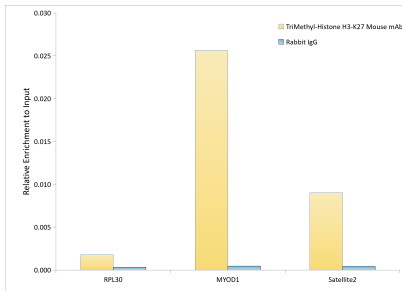
 | cn.market@abclonal.com.cn

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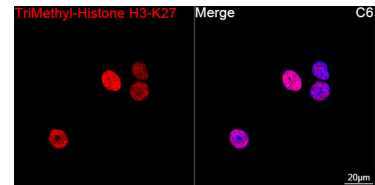
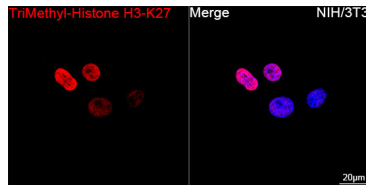
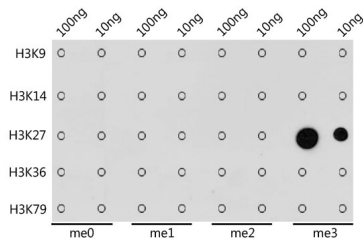
Validation Data



Western blot analysis of various lysates using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at 1:10000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) 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): Recombinant H3 protein (10 ng per lane) .
 Exposure time: 20 s.



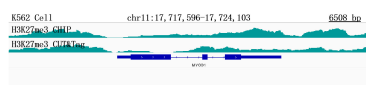
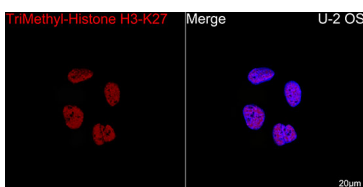
Chromatin immunoprecipitation analysis of extracts of HeLa; cells, using TriMethyl-Histone H3-K27 Mouse mAb antibody (A16199) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



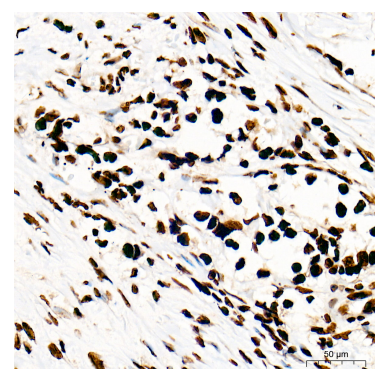
Dot-blot analysis of all sorts of methylation peptides using TriMethyl-Histone H3-K27 antibody (A16199) at 1:1000 dilution.

Confocal imaging of NIH/3T3 cells using TriMethyl-Histone H3-K27 Mouse mAb (A16199, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

Confocal imaging of C6 cells using TriMethyl-Histone H3-K27 Mouse mAb (A16199, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265)

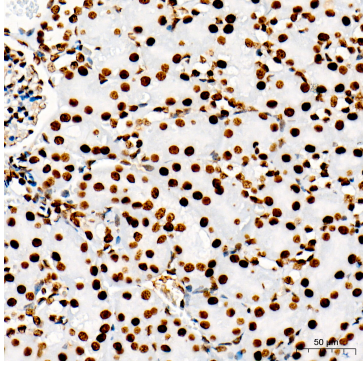


Confocal imaging of U-2 OS cells using TriMethyl-Histone H3-K27 Mouse mAb

Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using

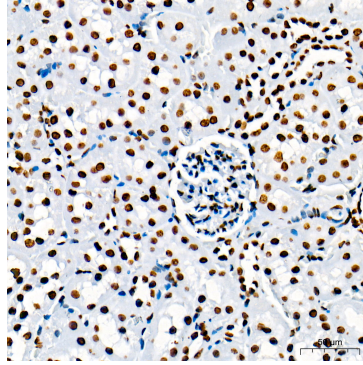
Validation Data

(A16199, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



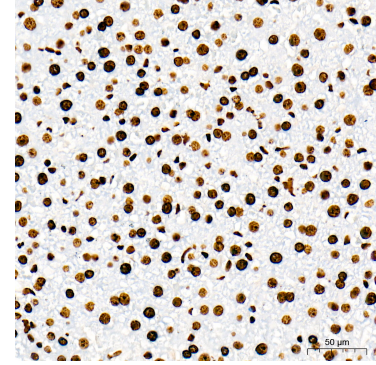
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

from 10^5 K562 cells with 1 µg 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 (MYOD1), as shown in figure.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

TriMethyl-Histone H3-K27 Mouse mAb (A16199) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.