

# 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&amp;Tag, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

AMC0015

## 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** 1:2000 - 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** 10<sup>5</sup> cells /1 µg**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## 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

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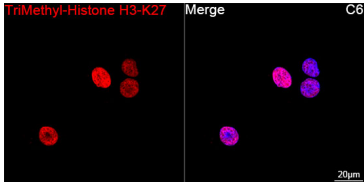
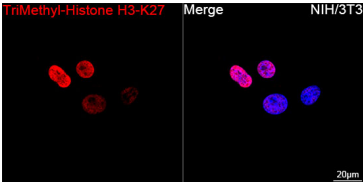
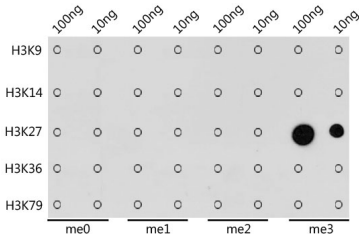
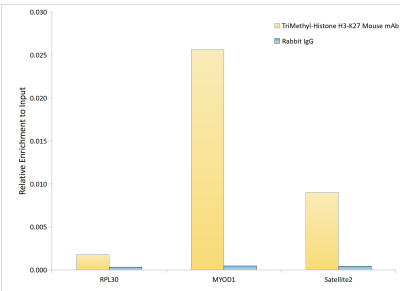
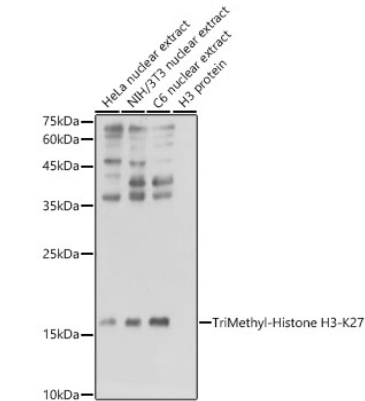
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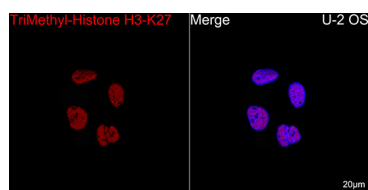
Validation Data



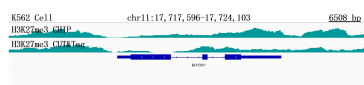
Dot-blot analysis of all sorts of methylation peptides using TriMethyl-Histone H3-K27 antibody (A16199) at 1:1000 dilution.

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.

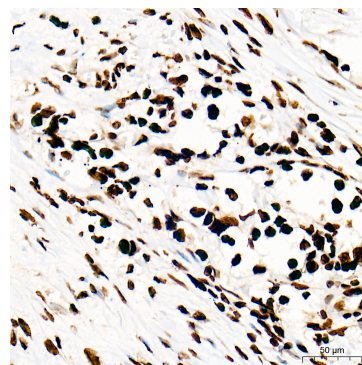
Confocal imaging of C6 cells using TriMethyl-Histone H3-K27 Mouse mAb (A16199, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



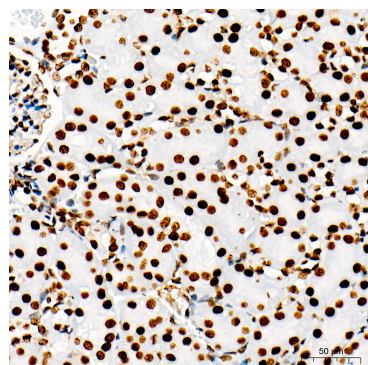
Confocal imaging of U-2 OS cells using TriMethyl-Histone H3-K27 Mouse mAb (A16199, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



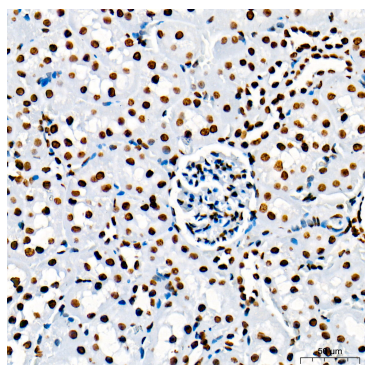
CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10<sup>5</sup> K562 cells with 1 µg TriMethyl-Histone H3-K27 Mouse mAb antibody (A16199), along with a Goat Anti-Mouse IgG (H+L). The CUT&Tag results indicate the enrichment pattern of TriMethyl-Histone H3-K27 in representative gene loci (MYOD1), as shown in figure.



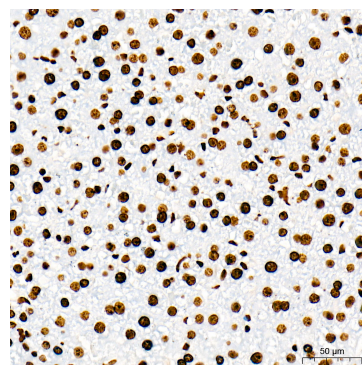
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using TriMethyl-Histone H3-K27 Mouse mAb (A16199) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



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.



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.



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.