

# Acetyl-Histone H3-K27 Rabbit mAb

Catalog No.: A22077 **Recombinant**

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

15kDa

### Category

Primary antibody

### Applications

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

### Cross-Reactivity

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

### CloneNo number

ARC53671

## Recommended Dilutions

**DB** 1:2000 - 1:20000**WB** 1:2000 - 1:20000**IHC-P** 1:50 - 1:200**IF** 1:100 - 1:500**ChIP** 5µg antibody for  
5µg-10µg of Chromatin**ChIP-seq** 1:50 - 1:200**CUT&Tag** 10<sup>5</sup> cells /1 µg

## Contact

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## 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 acetylated peptide around K27 of human Acetyl-Histone H3-K27 (NP\_003520.1).

### Synonyms

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

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

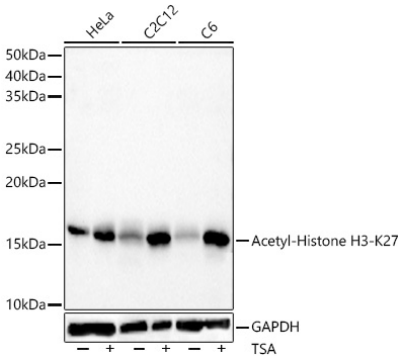
Affinity purification

### Storage

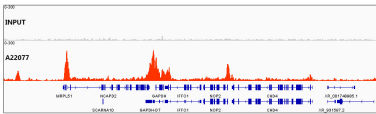
Store at -20°C. Avoid freeze / thaw cycles.

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

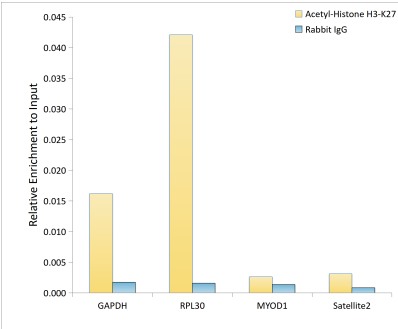
Validation Data



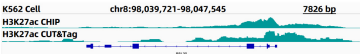
Western blot analysis of various lysates, using Acetyl-Histone H3-K27 Rabbit mAb (A22077) at 1:20000 dilution. HeLa, C2C12 and cells were treated by TSA (1 uM) at 37°C for 18 hours.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.



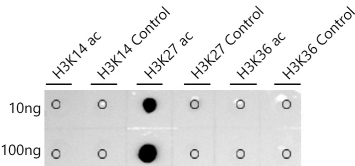
Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and Acetyl-Histone H3-K27 Rabbit mAb (A22077). The ChIP sequencing results indicate the enrichment pattern of Acetyl-Histone H3-K27 in selected genomic region and representative gene loci (GAPDH), as shown in figure.



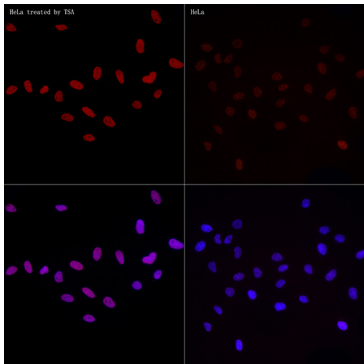
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K27 Rabbit mAb antibody (A22077) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



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 Acetyl-Histone H3-K27 Rabbit mAb (A22077), along with a Goat Anti-Rabbit IgG (H+L). The CUT&Tag results indicate the enrichment pattern of H3K27ac in representative gene loci (RPL30),



Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K27 antibody (A22077) at 1:20000 dilution.

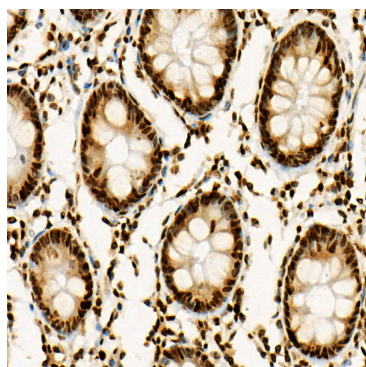


Immunofluorescence analysis of HeLa treated by TSA and HeLa cells using Acetyl-Histone H3-K27 Rabbit mAb (A22077) at dilution of 1:400 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

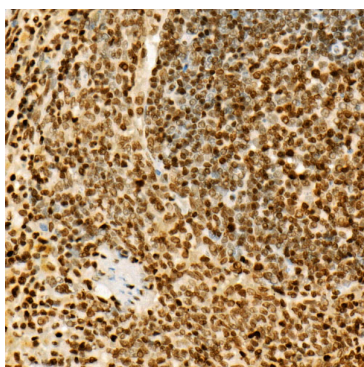
## Validation Data

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as shown in figure.



Immunohistochemistry analysis of paraffin-embedded human colon using Acetyl-Histone H3-K27 Rabbit mAb (A22077) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded rat spleen using Acetyl-Histone H3-K27 Rabbit mAb (A22077) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.