# Acetyl-Histone H3-K27 Rabbit mAb

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Catalog No.: A22264 Recombinant 5 Publications

## **Basic Information**

## **Observed MW**

17kDa

### **Calculated MW**

15kDa

#### Category

SMab Recombinant Monoclonal Antibody

## **Applications**

WB,IHC-P,IF/ICC,ChIP,ChIPseq,ELISA,DB

## **Cross-Reactivity**

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

**Recommended Dilutions** 

#### CloneNo number

ARC54943

**WB** 

DB

IHC-P

IF/ICC

**ELISA** 

## 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 replicationdependent 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	Swiss Prot	
8290/8350	Q16695/P68431	

#### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

## **Synonyms**

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

Recommended starting concentration is 1 µg/mL. Please optimize the concentration

based on your specific assay requirements.

1:10000 - 1:40000

1:2000 - 1:20000

1:50 - 1:200

1:50 - 1:200

**ChIP** 5µg antibody for

5μg-10μg of Chromatin

1:50 - 1:200 ChIP-seq

## Contact

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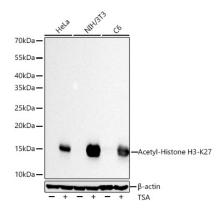
## **Product Information**

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

#### Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of various lysates using Acetyl-Histone H3-K27 Rabbit mAb (A22264) at 1:10000 dilution incubated overnight at 4°C. HeLa cells ,NIH/3T3 cells and C6 cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours.

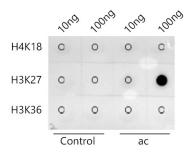
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

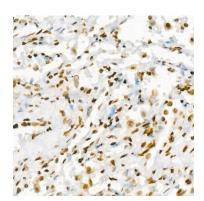
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

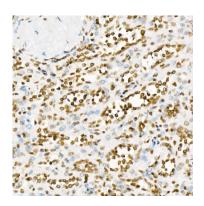
Exposure time: 20s.



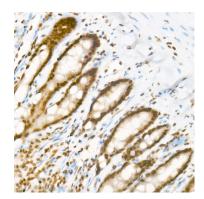
Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K27 antibody (A22264) at 1:2000 dilution.



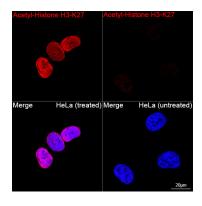
Immunohistochemistry analysis of paraffin-embedded Human lung using Acetyl-Histone H3-K27 Rabbit mAb (A22264) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen using Acetyl-Histone H3-K27 Rabbit mAb (A22264) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

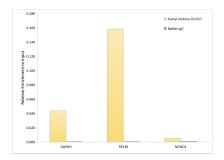


Immunohistochemistry analysis of paraffin-embedded Rat intestine using Acetyl-Histone H3-K27 Rabbit mAb (A22264) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

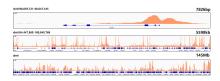


Confocal imaging of HeLa TSA and HeLa cells using Acetyl-Histone H3-K27 Rabbit mAb (A22264,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 100x.

## **Validation Data**



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K27 antibody (A22264) 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.



Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and Acetyl-Histone H3-K27 Rabbit mAb (A22264). The ChIP sequencing results indicate the enrichment pattern of Acetyl-Histone H3-K27 in selected genomic region and representative gene loci (RPL30), as shown in figure.