

Acetyl-Histone H3-K27 Rabbit mAb

Catalog No.: A22264

Recombinant

3 Publications

Basic Information

Observed MW

17kDa

Calculated MW

15kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

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

CloneNo number

ARC54943

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

DB 1:2000 - 1:20000

WB 1:2000 - 1:20000

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:200

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

ChIP-seq 1:50 - 1:200

Immunogen Information

Gene ID

8290/8350

Swiss Prot

Q16695/P68431

Immunogen

A synthetic acetylated peptide around K27 of human Histone H3 (NP_003520.1).

Synonyms

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

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

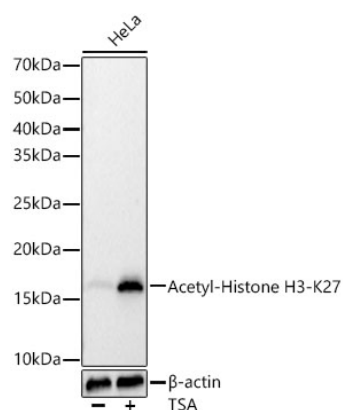
Affinity purification

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 lysates from HeLa cells, using Acetyl-Histone H3-K27 Rabbit mAb (A22264) at 1:20000 dilution. HeLa cells were treated by TSA (1 μ M) at 37°C for 18 hours.

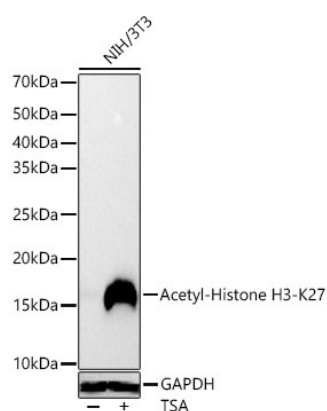
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Western blot analysis of lysates from NIH/3T3 cells, using Acetyl-Histone H3-K27 Rabbit mAb (A22264) at 1:20000 dilution. NIH/3T3 cells were treated by TSA (1 μ M) at 37°C for 18 hours.

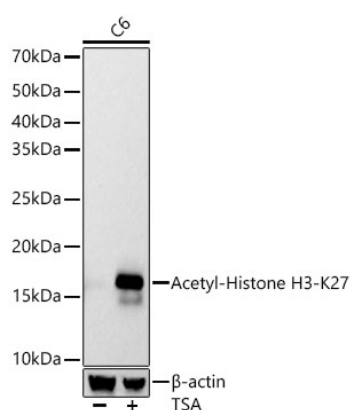
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Western blot analysis of lysates from C6 cells, using Acetyl-Histone H3-K27 Rabbit mAb (A22264) at 1:20000 dilution. C6 cells were treated by TSA (1 μ M) at 37°C for 18 hours.

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

Lysates/proteins: 25 μ g per lane.

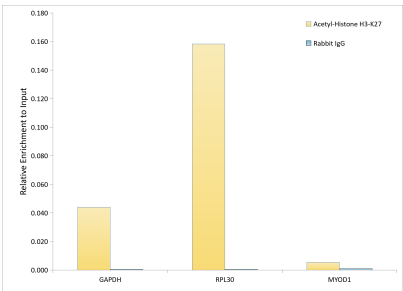
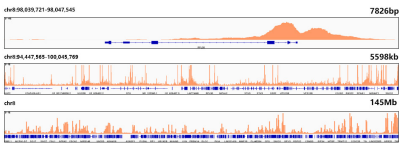
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

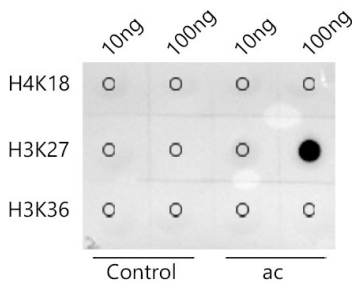
Exposure time: 30s.

Validation Data

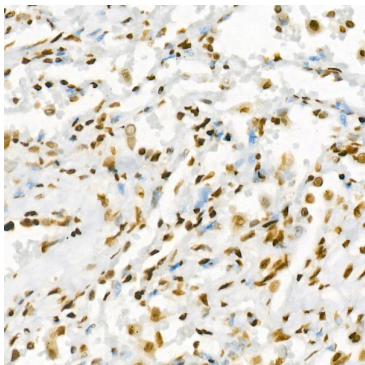
Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and Acetyl-Histone H3-K27 Rabbit mAb (A22264). The ChIP sequencing results indicate the enrichment pattern of Acetyl-Histone H3-K27 in selected genomic region and representative gene loci (RPL30), as shown in figure.



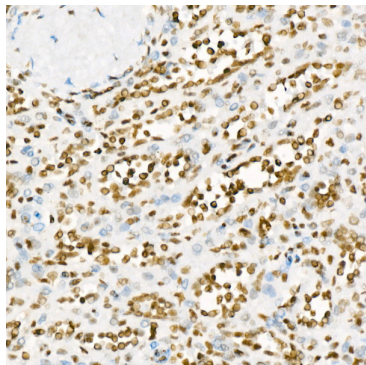
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K27 antibody (A22264) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



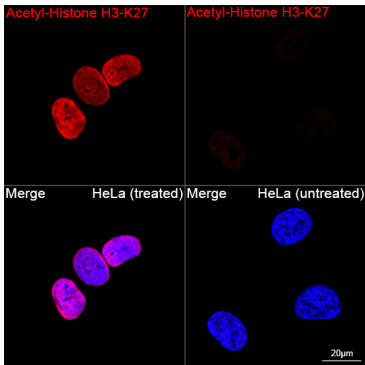
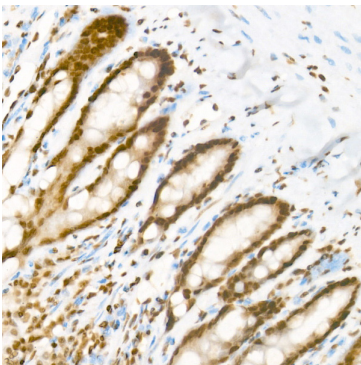
Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K27 antibody (A22264) at 1:2000 dilution.



Immunohistochemistry analysis of Acetyl-Histone H3-K27 in paraffin-embedded human lung using Acetyl-Histone H3-K27 Rabbit mAb (A22264) 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 Acetyl-Histone H3-K27 in paraffin-embedded human spleen using Acetyl-Histone H3-K27 Rabbit mAb (A22264) 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.



Validation Data

Immunohistochemistry analysis of Acetyl-Histone H3-K27 in paraffin-embedded rat intestine using Acetyl-Histone H3-K27 Rabbit mAb (A22264) 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.

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.