

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&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 ⁵ cells /1 µg

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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

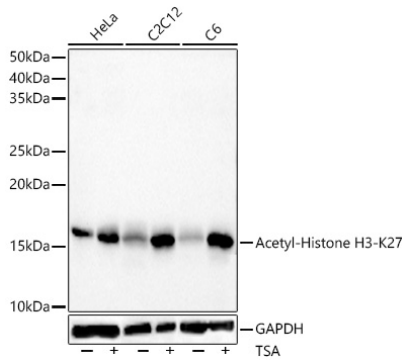
Affinity purification

Storage

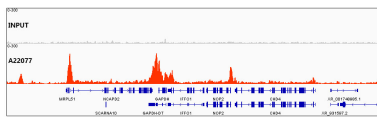
Store at -20°C. Avoid freeze / thaw cycles.

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

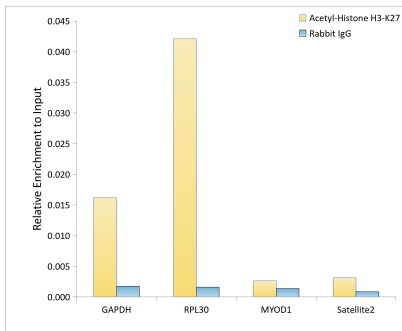
Validation Data



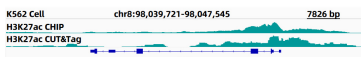
Western blot analysis of various lysates, using Acetyl-Histone H3-K27 Rabbit mAb (A22077) at 1:20000 dilution. HeLa, C2C12 and C6 cells were treated by TSA (1 μ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



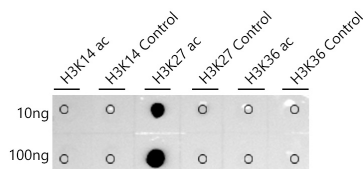
Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and Acetyl-Histone H3-K27 Rabbit mAb (A22077). The ChIP sequencing results indicate the enrichment pattern of Acetyl-Histone H3-K27 in selected genomic region and representative gene loci (GAPDH), as shown in figure.



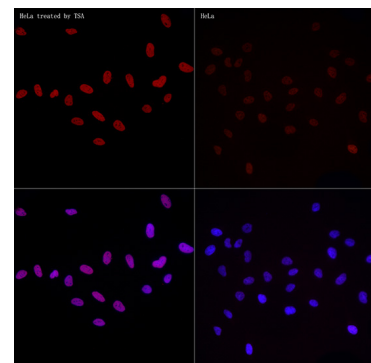
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K27 Rabbit mAb antibody (A22077) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina (RK20265) from 10⁵ K562 cells with 1 μ g 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),



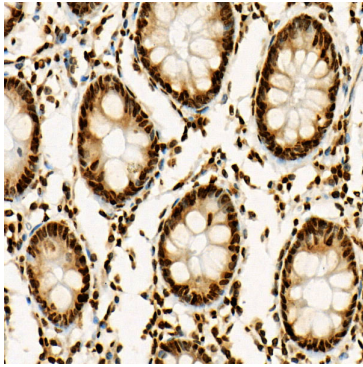
Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K27 antibody (A22077) at 1:20000 dilution.



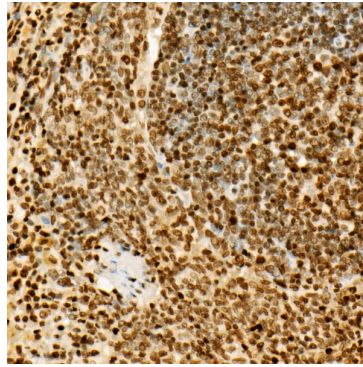
Immunofluorescence analysis of HeLa treated by TSA and HeLa cells using Acetyl-Histone H3-K27 Rabbit mAb (A22077) at dilution of 1:400 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Validation Data

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). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen using Acetyl-Histone H3-K27 Rabbit mAb (A22077) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.