

Acetyl-Histone H3-K27 Rabbit pAb

Catalog No.: A7253 **99 Publications**

Basic Information

Observed MW

17kDa

Calculated MW

15kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

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

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 1:1000 - 1:5000

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:200

IP 0.5ug-4ug antibody for
200ug-400ug extracts of
whole cells

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

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

ChIP-seq 1:20 - 1:100

Immunogen Information

Gene ID

8290/8350

Swiss Prot

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

Product Information

Source

Rabbit

Isotype

IgG

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.

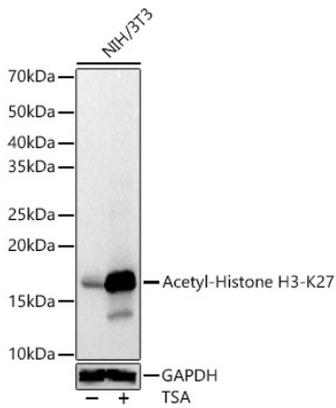
Contact

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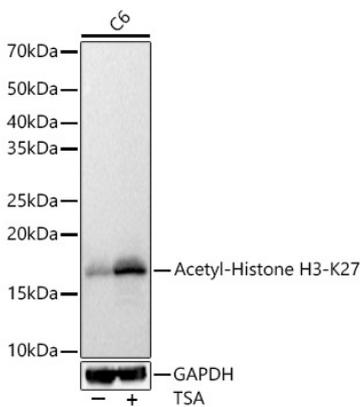
 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

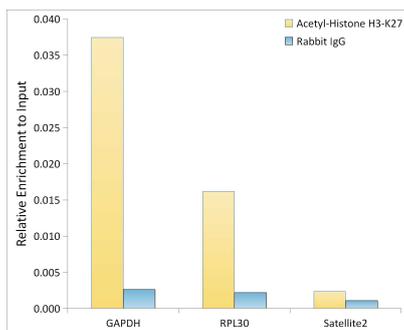
Validation Data



Western blot analysis of lysates from NIH/3T3 cells, using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at 1:2000 dilution. NIH/3T3 cells were treated with 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: 1s.

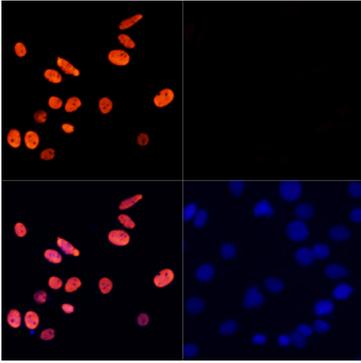


Western blot analysis of lysates from C6 cells, using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at 1:2000 dilution. C6 cells were treated with TSA (1 μ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

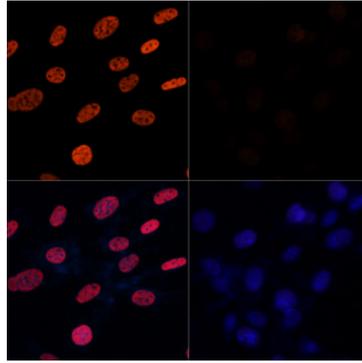


Chromatin immunoprecipitation was performed with cross-linked chromatin from 293T, using Acetyl-Histone H3-K27 Rabbit pAb antibody (A7253) and rabbit IgG(AC005). The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram constructed the ratios of the ratio of the immunoprecipitated DNA versus the input.

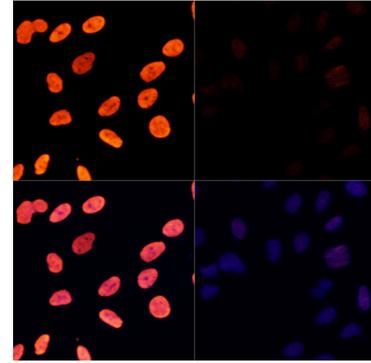
Validation Data



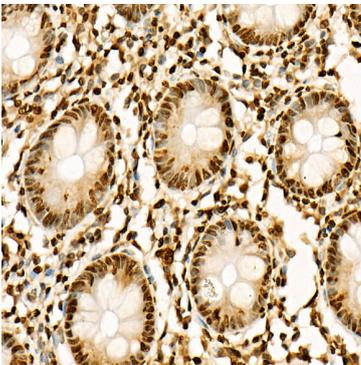
Immunofluorescence analysis of C6 cells treated with TSA (upper left) and untreated C6 cells (upper right) using Acetyl-Histone H3-K27 Rabbit pAb (red, A7253) at dilution of 1:100. Blue: DAPI for nuclear staining.



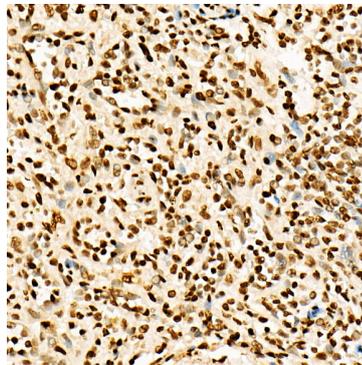
Immunofluorescence analysis of NIH-3T3 cells treated with TSA (upper left) and untreated NIH-3T3 cells (upper right) using Acetyl-Histone H3-K27 Rabbit pAb (red, A7253) at dilution of 1:100. Blue: DAPI for nuclear staining.



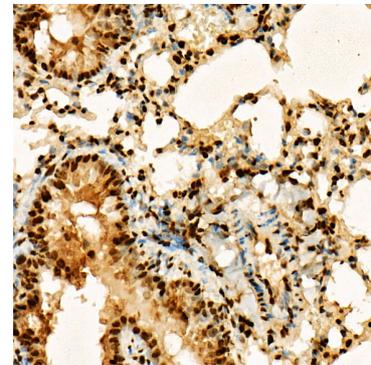
Immunofluorescence analysis of U-2 OS cells treated with TSA (upper left) and untreated U-2 OS cells (upper right) using Acetyl-Histone H3-K27 Rabbit pAb (red, A7253) at dilution of 1:100. Blue: DAPI for nuclear staining.



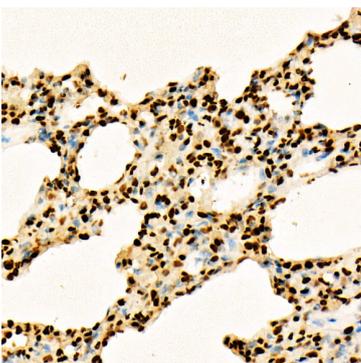
Immunohistochemistry analysis of paraffin-embedded Human colon using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse lung using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at dilution of 1:200 (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 lung using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.