A7253

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Acetyl-Histone H3-K27 Rabbit pAb

Catalog No.: A7253 69 Publications

Basic Information

Observed MW
17kDa

Calculated MW
15kDa

Category
Polyclonal Antibody

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

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
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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Contact

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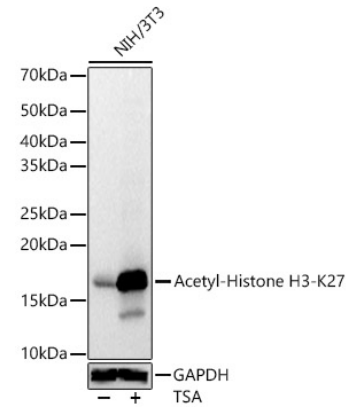
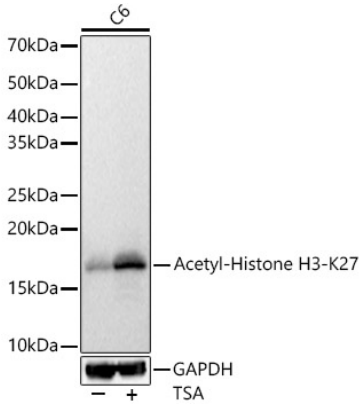
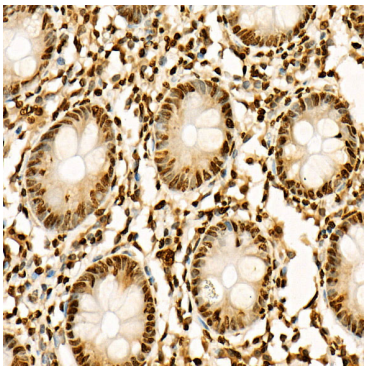
Validation Data



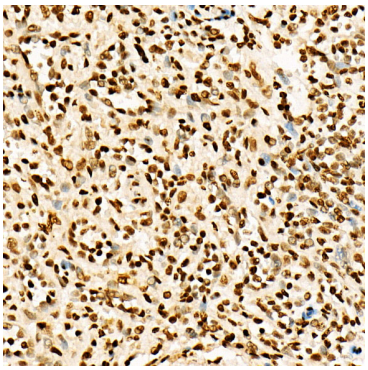
Western blot analysis of lysates from NIH/3T3 cells, using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at 1:2000 dilution. NIH/3T3 cells were treated by TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



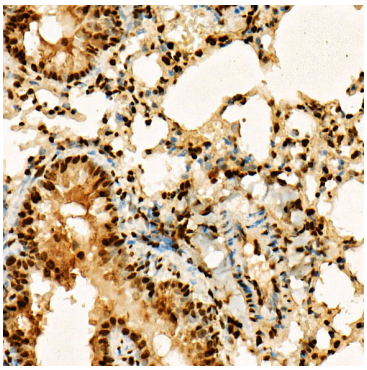
Western blot analysis of lysates from C6 cells, using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at 1:2000 dilution. C6 cells were treated by TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking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



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 Bufferr (pH 6.0) prior to IHC staining.

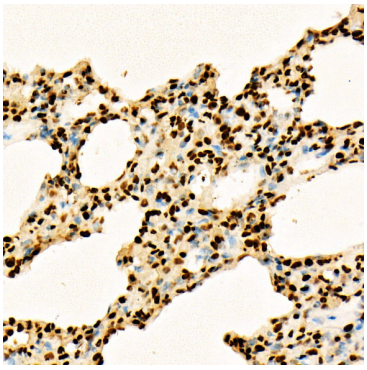


Immunohistochemistry analysis of paraffin-embedded Human spleen using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

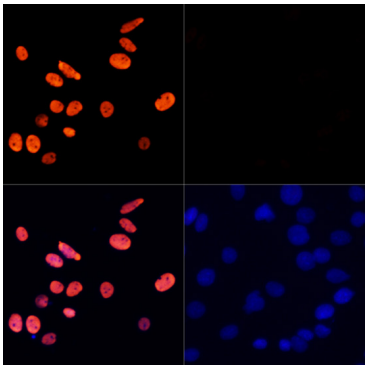


Immunohistochemistry analysis of paraffin-embedded Mouse lung using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

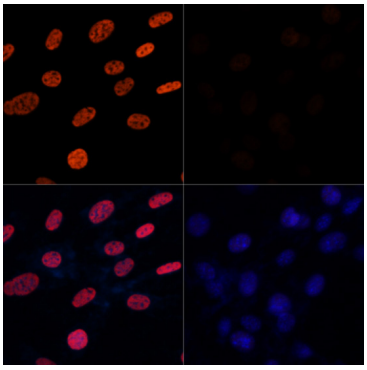
Validation Data



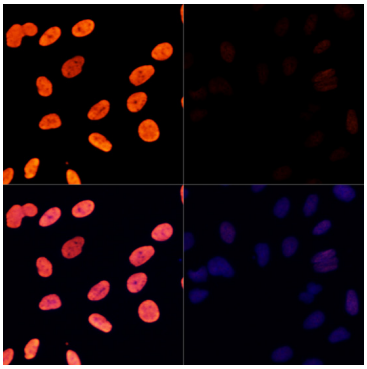
Immunohistochemistry analysis of paraffin-embedded Rat lung using Acetyl-Histone H3-K27 Rabbit pAb (A7253) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



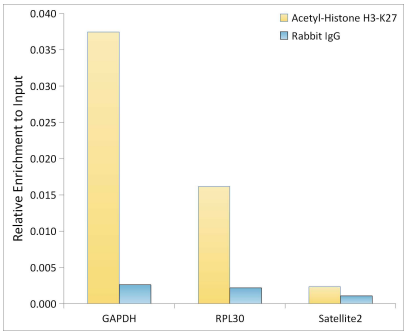
Immunofluorescence analysis of C6 cells treated by TSA (upper left) and untreated C6 cells (upper right) using Acetyl-Histone H3-K27 Rabbit pAb (red, A7253) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH-3T3 cells treated by 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 by 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.



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.