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Acetyl-Histone H3-K27 Rabbit pAb

Catalog No.: A7253SP 86 Publications

Basic Information

Observed MW
17 kDa

Calculated MW
15 kDa

Category
Primary antibody

Applications
WB,IF/ICC,IHC-P,DB,ChIP,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	1:50000 - 1:100000
IHC-P	1:200 - 1:800
IF/ICC	1:200 - 1:800
DB	1:50000 - 1:100000
ChIP	5 μg antibody for 10 μg - 15 μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
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℃. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

Contact

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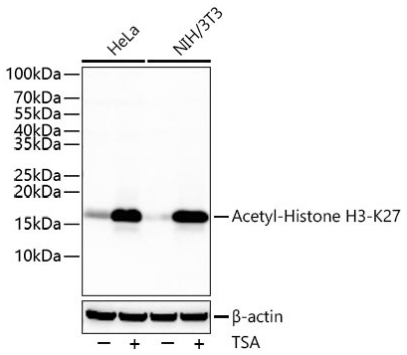
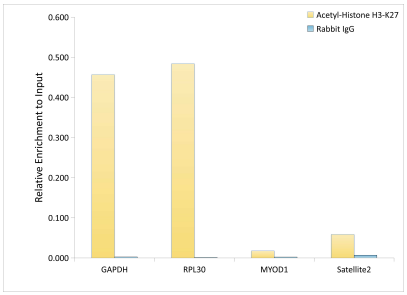
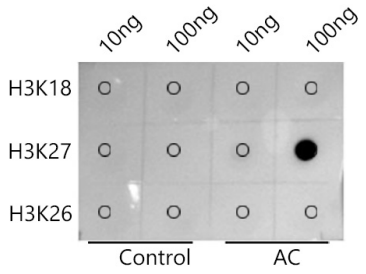
Validation Data



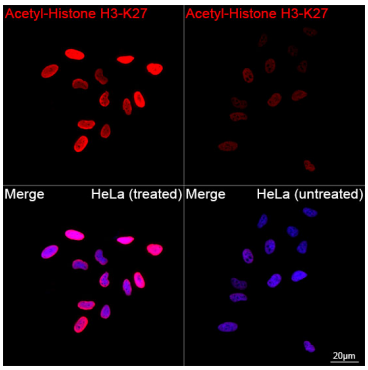
Western blot analysis of various lysates using Acetyl-Histone H3-K27 Rabbit pAb (A7253SP) at 1:70000 dilution incubated overnight at 4℃. HeLa cells were treated with TSA (1uM) at 37°C for 18 hours, NIH/3T3 cells were treated with TSA (1uM) at 37°C for 18 hours
Secondary antibody: HRP-conjugated Goat 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: 30 s.



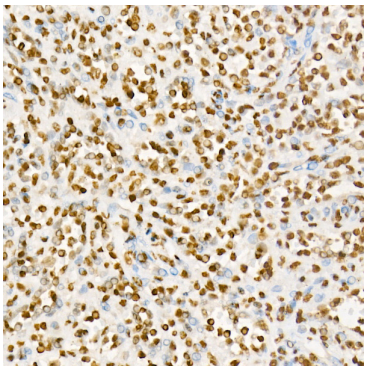
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HeLa cells, using 5 µg of Acetyl-Histone H3-K27 Rabbit pAb(A7253SP) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K27 Rabbit pAb (A7253SP) at 1:70000 dilution.



Immunofluorescence analysis of HeLa cells (treated with TSA) and HeLa cells (untreated) using Acetyl-Histone H3-K27 Rabbit pAb (A7253SP) at a dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using Acetyl-Histone H3-K27 Rabbit pAb (A7253SP) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.