Acetyl-Histone H3-K56 Rabbit pAb

Catalog NO.: A7256SP **13 Publications**

Basic Information

Observed MW
17 kDa

Calculated MW
15 kDa

Category
Acetylated Antibodies

Applications
WB, IP, IF/ICC, IHC-P, DB, ChIP, ChIP-seq, CUT&Tag, ELISA

Cross-Reactivity
Human, Mouse, Rat, Other (Wide Range Predicted)

Conjugation
Unconjugated

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

Immunogen Information

WB 1:2000 - 1:10000

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

IF/ICC 1:200 - 1:800

IHC-P 1:1000 - 1:4000

DB 1:2000 - 1:10000

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

ChIP-seq 5 μg antibody for 10 μg of Chromatin

CUT&Tag 10^5 cells /1 μg

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.

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
H3.4; H3/g; H3FT; H3t; HIST3H3; Histone H3; HIST1H3A; Acetyl-Histone H3-K56

Contact

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Product Information

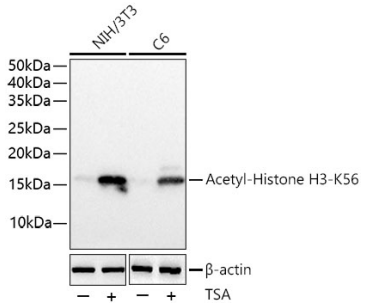
Source
Rabbit

Isotype
IgG

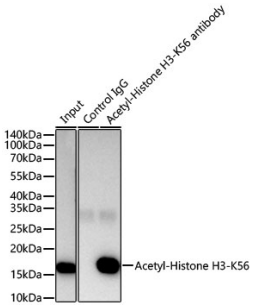
Purification
Affinity purification

Storage
Store at -20°C. 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.

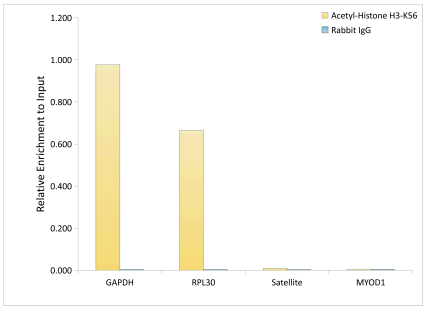
Validation Data



Western blot analysis of various lysates using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) at 1:7000 dilution incubated overnight at 4°C. NIH/3T3 cells were treated with TSA (1 μM) at 37°C for 18 hours, C6 cells were treated with TSA (1 μM) 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: 0.5 s.

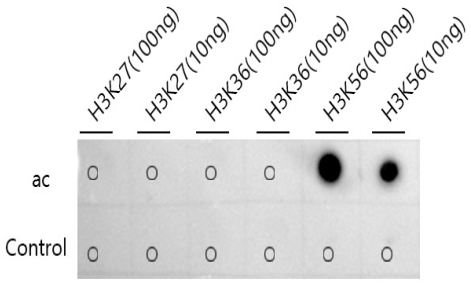


Immunoprecipitation of Acetyl-Histone H3-K56 from 300 μg extracts of HeLa cells treated with TSA (5 mM ,16 h) was performed using 2 μg of Acetyl-Histone H3-K56 Rabbit pAb (A7256SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) at a dilution of 1:5000.

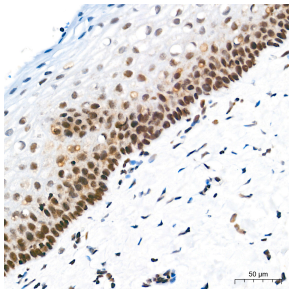


Chromatin immunoprecipitation was performed with 10 μg of cross-linked chromatin from HeLa cells, using 5 μg of Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.

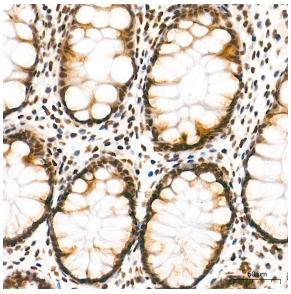
Validation Data



Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) at 1:10000 dilution.



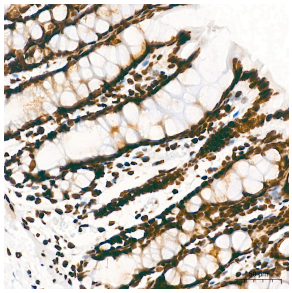
Immunohistochemistry analysis of paraffin-embedded Human cervix tissue using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



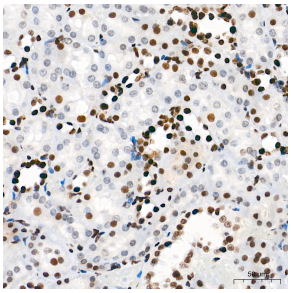
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



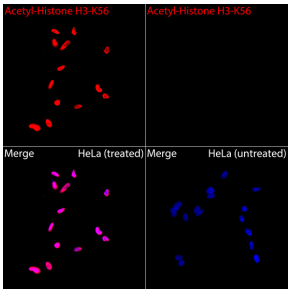
Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



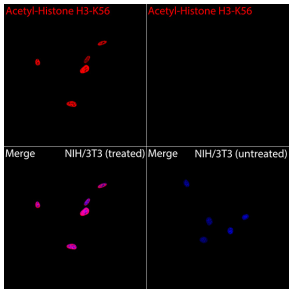
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



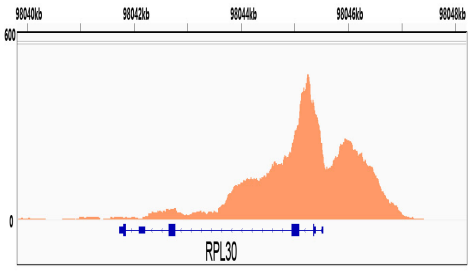
Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunofluorescence analysis of HeLa cells (treated with TSA) and HeLa cells (untreated) using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP) at a dilution



Immunofluorescence analysis of NIH/3T3 cells (treated with TSA) and NIH/3T3 cells (untreated) using Acetyl-Histone H3-K56 Rabbit pAb (A7256SP)



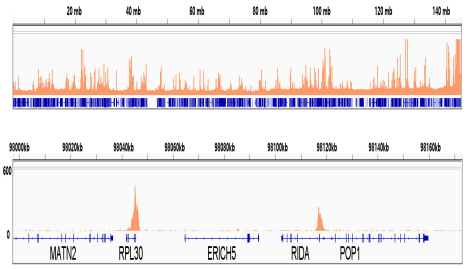
Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from HeLa using 5 µg of Acetyl-Histone H3-K56 Rabbit pAb (A7256SP). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing

of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

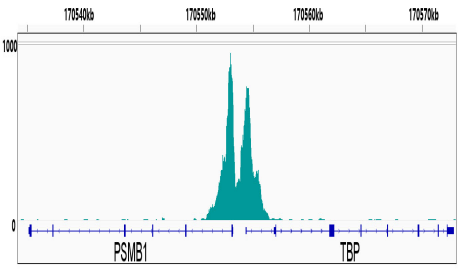
at a dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

results indicate the enrichment pattern of Acetyl-Histone H3-K56 in the representative genomic region surrounding RPL30 gene.

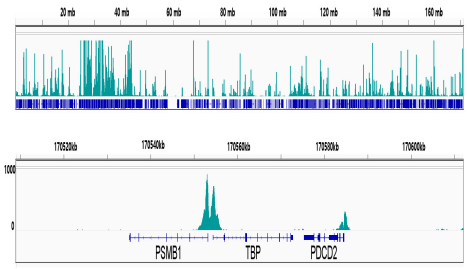
Validation Data



Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from HeLa using 5 µg of Acetyl-Histone H3-K56 Rabbit pAb (A7256SP). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of Acetyl-Histone H3-K56 across chromosome 8 (upper panel) and the genomic region encompassing , a representative gene enriched in Acetyl-Histone H3-K56 (lower panel).



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for illumina (RK20265) from 10^5 HeLa with 1 µg of Acetyl-Histone H3-K56 Rabbit pAb (A7256SP), followed by incubation with (). The CUT&Tag results denote the enrichment pattern of Acetyl-Histone H3-K56 across chromosome 6 (upper panel) and the genomic region encompassing TBP, a representative gene enriched in Acetyl-Histone H3-K56 (lower panel).



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for illumina (RK20265) from 10^5 HeLa with 1 µg of Acetyl-Histone H3-K56 Rabbit pAb (A7256SP), followed by incubation with (). The CUT&Tag results denote the enrichment pattern of Acetyl-Histone H3-K56 across chromosome 6 (upper panel) and the genomic region encompassing TBP, a representative gene enriched in Acetyl-Histone H3-K56 (lower panel).