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Acetyl-Histone H3-K14 Rabbit mAb

Catalog No.: A25314 Recombinant

Basic Information

Observed MW
17kDa

Calculated MW
16kDa

Category
Primary antibody

Applications
WB,IF-P,IHC-P,ChIP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC3249

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 - 1:2000
IF-P	1:50 - 1:200
IHC-P	1:50 - 1:200
ChIP	3μg antibody for 5μg-10μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

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-K14

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

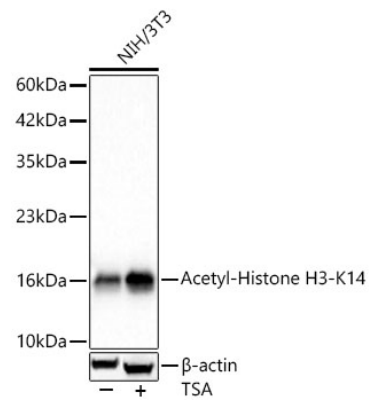
Contact

400-999-6126

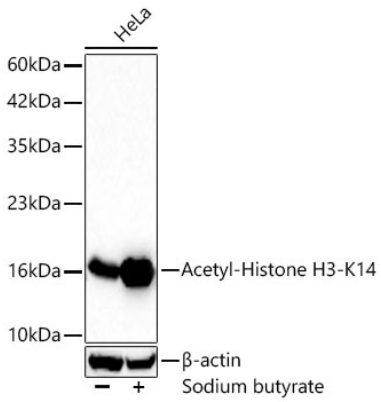
cn.market@abclonal.com.cn

www.abclonal.com.cn

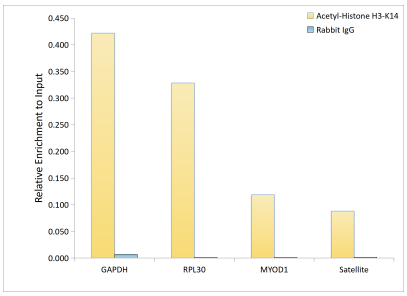
Validation Data



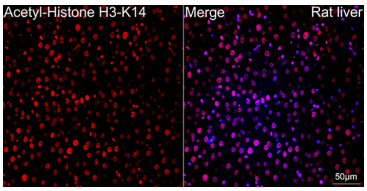
Western blot analysis of lysates from NIH/3T3 cells using Acetyl-Histone H3-K14 Rabbit mAb (A25314) at 1:2000 dilution. NIH/3T3 cells were treated with TSA (1 μM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.

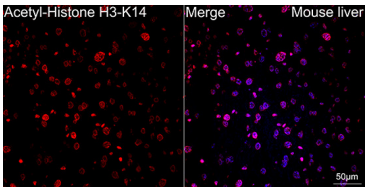


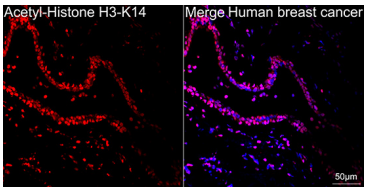
Western blot analysis of lysates from HeLa cells using Acetyl-Histone H3-K14 Rabbit mAb (A25314) at 1:2000 dilution. HeLa cells were treated with Sodium butyrate (5 mM) at 37℃ for 16 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Chromatin immunoprecipitation was performed with cross-linked chromatin from HeLa cells treated with nocodazole, using Acetyl-Histone H3-K14 Rabbit mAb (A25314) and rabbit IgG(AC042). The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram compares the ratio of the immunoprecipitated DNA versus the input.





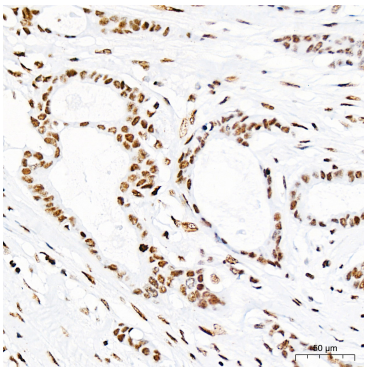


Validation Data

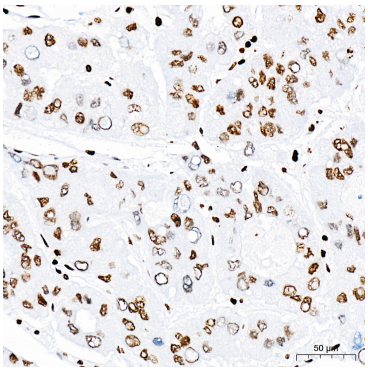
Confocal imaging of paraffin-embedded Rat liver tissue using Acetyl-Histone H3-K14 Rabbit mAb (A25314, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500)(Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

Confocal imaging of paraffin-embedded Mouse liver tissue using Acetyl-Histone H3-K14 Rabbit mAb (A25314, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

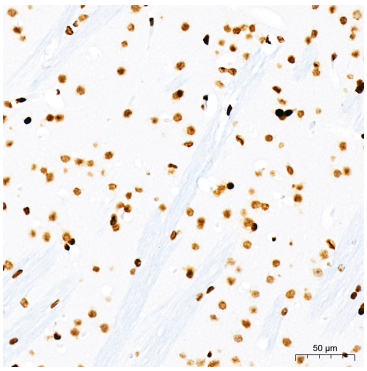
Confocal imaging of paraffin-embedded Human breast cancer tissue using Acetyl-Histone H3-K14 Rabbit mAb (A25314, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



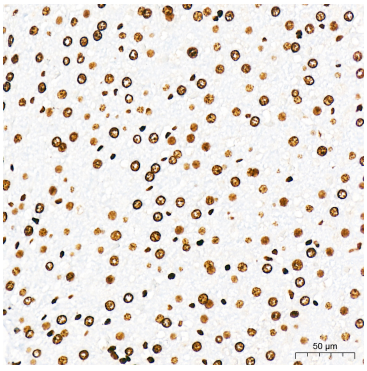
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using Acetyl-Histone H3-K14 Rabbit mAb (A25314) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using Acetyl-Histone H3-K14 Rabbit mAb (A25314) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Acetyl-Histone H3-K14 Rabbit mAb (A25314) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Acetyl-Histone H3-K14 Rabbit mAb (A25314) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.