

Acetyl-Histone H4-K8 Rabbit pAb

Catalog No.: A7258

11 Publications

Basic Information

Observed MW

11kDa

Calculated MW

11kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC, 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. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:500 - 1:1000
CHIP	5µg antibody for 5µg-10µg of Chromatin
CHIP-seq	1:20 - 1:50

Contact

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Immunogen Information

Gene ID

8359

Swiss Prot

P62805

Immunogen

A synthetic acetylated peptide around K8 of human Histone H4 (NP_003529.1).

Synonyms

H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4FA; H4-16; H4C11; H4C12; H4C13; H4C14; H4C15; H4C16; HIST1H4A; Acetyl-Histone H4-K8

Product Information

Source

Rabbit

Isotype

IgG

Purification

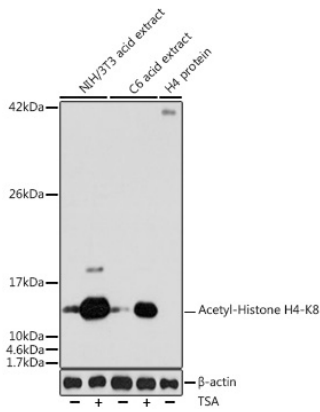
Affinity purification

Storage

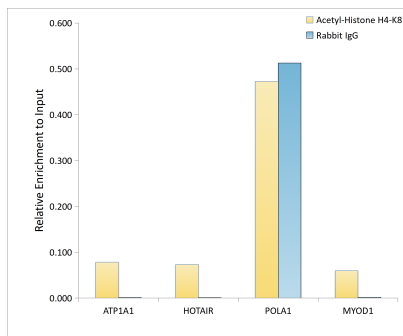
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

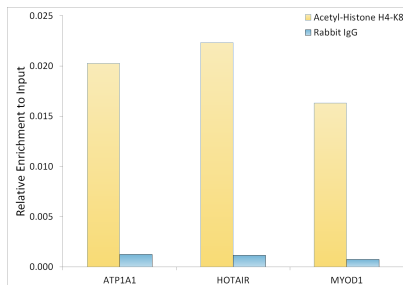
Validation Data



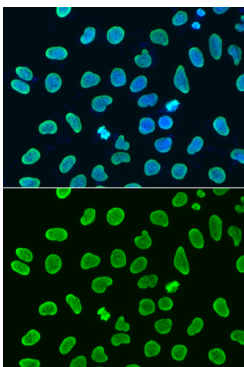
Western blot analysis of various lysates using Acetyl-Histone H4-K8 Rabbit pAb (A7258) at 1:1000 dilution. NIH/3T3 cells and C6 cells were treated by TSA (1 uM) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



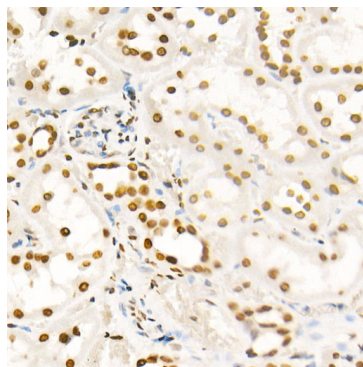
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H4-K8 antibody (A7258) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



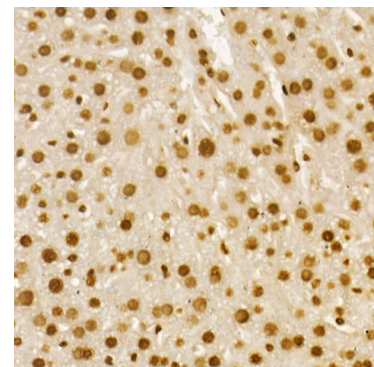
Chromatin immunoprecipitation was performed with 5 µg of cross-linked chromatin from HeLa cells, using 5 µg of Acetyl-Histone H4-K8 Rabbit pAb (A7258) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Immunofluorescence analysis of HeLa cells using Acetyl-Histone H4-K8 Rabbit pAb



Immunohistochemistry analysis of paraffin-embedded Human kidney using Acetyl-



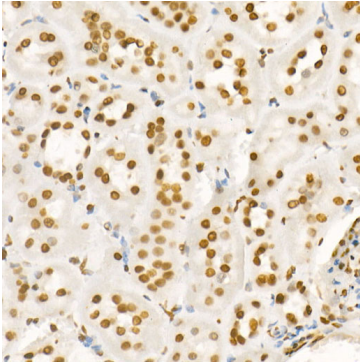
Immunohistochemistry analysis of paraffin-embedded Mouse liver using Acetyl-Histone

Validation Data

(A7258). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Histone H4-K8 Rabbit pAb (A7258) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

H4-K8 Rabbit pAb (A7258) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney using Acetyl-Histone H4-K8 Rabbit pAb (A7258) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.