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Acetyl-Histone H4-K91 Rabbit pAb

Catalog No.: A7409

Basic Information

Observed MW
17kDa

Calculated MW
11kDa

Category
Primary antibody

Applications
WB,IF/ICC,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. 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
IF/ICC	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
8359

Swiss Prot
P62805

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

Synonyms
H4; H4/n; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4F2; H4FN; FO108; H4-16; H4C11; H4C12; H4C13; H4C15; H4C16; HIST2H4; HIST2H4A; Acetyl-Histone H4-K91

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Product Information

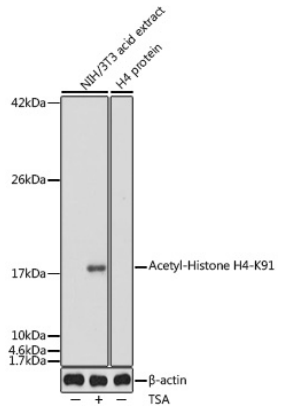
Source
Rabbit

Isotype
IgG

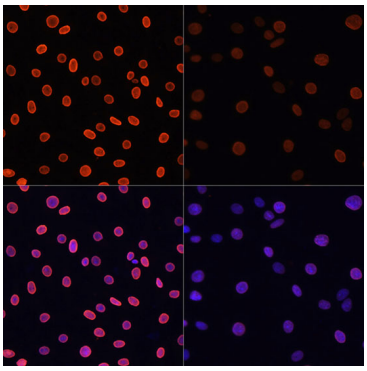
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

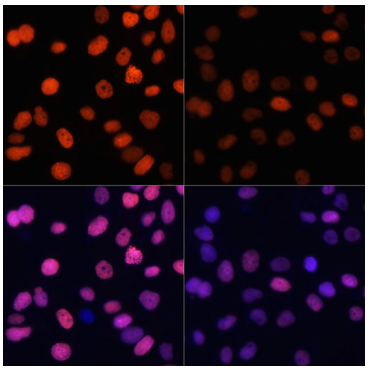
Validation Data



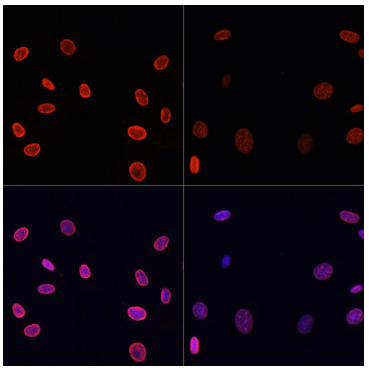
Western blot analysis of lysates from NIH/3T3 cells, using Acetyl-Histone H4-K91 Rabbit pAb (A7409) at 1:1000 dilution. NIH/3T3 cells were treated with TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 300s.



Immunofluorescence analysis of C6 cells using Acetyl-Histone H4-K91 Rabbit pAb (A7409) at dilution of 1:100.C6 cells were treated with TSA (1 uM) at 37℃ for 18 hours. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using Acetyl-Histone H4-K91 Rabbit pAb (A7409) at dilution of 1:100.HeLa cells were treated with TSA (1 uM) at 37℃ for 18 hours. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Acetyl-Histone H4-K91 Rabbit pAb (A7409) at dilution of 1:100.NIH/3T3 cells were treated with TSA (1 uM) at 37℃ for 18 hours. Blue: DAPI for nuclear staining.