A23683

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Acetyl-Histone H4-K12 Rabbit mAb

Catalog No.: A23683 Recombinant

Basic Information

Observed MW
11kDa

Calculated MW
11kDa

Category
SMab Recombinant Monoclonal Antibody

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

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

CloneNo number
ARC57733

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:500 - 1:1000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.
ChIP	5μg antibody for 5μg-10μg of Chromatin

Contact

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Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order 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 but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6.

Immunogen Information

Gene ID
8359/8370

Swiss Prot
P62805

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

Synonyms
H4/I; H4C1; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4FI; H4-16; H4C11; H4C12; H4C13; H4C14; H4C15; H4C16; HIST1H4B; Acetyl-Histone H4-K12

Product Information

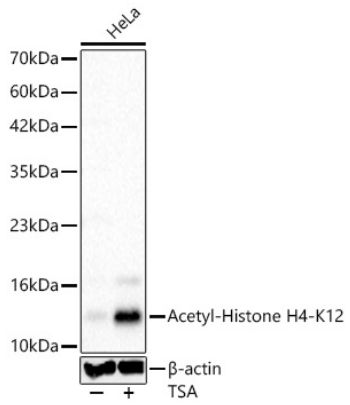
Source
Rabbit

Isotype
IgG

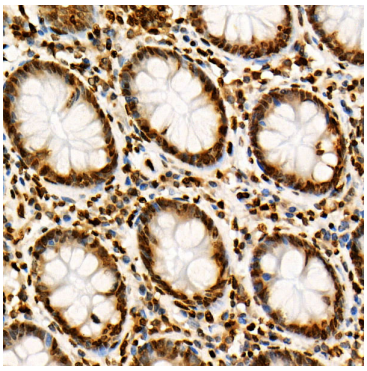
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

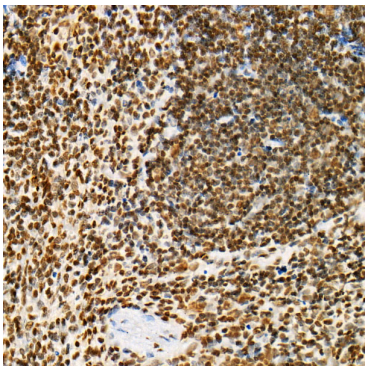
Validation Data



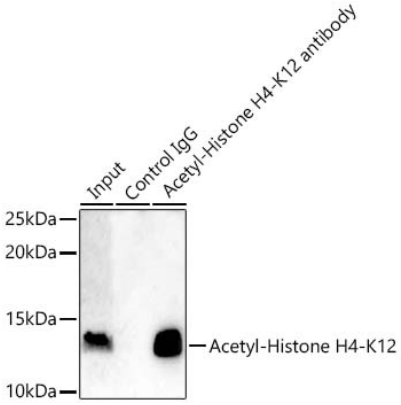
Western blot analysis of lysates from HeLa cells using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at 1:1000 dilution. HeLa cells were treated with 1μM TSA at 37℃ for 18 hours after serum starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 0.5s.



Immunohistochemistry analysis of paraffin-embedded Human colon using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

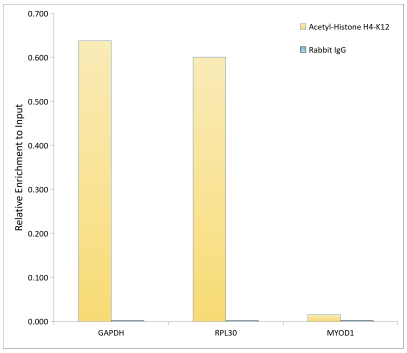


Immunohistochemistry analysis of paraffin-embedded Mouse spleen using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunoprecipitation analysis of 600 μg extracts of HeLa cells using 5 μg Acetyl-Histone H4-K12 Rabbit mAb (A23683). Western blot was performed from the immunoprecipitate using Acetyl-Histone H4-K5 Rabbit mAb (A23080) at a dilition of 1:10000.

Validation Data



Chromatin immunoprecipitation analysis of extracts of Hela cells, using Acetyl-Histone H4-K12 antibody (A23683) 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.