

# Acetyl-Histone H4-K12 Rabbit mAb

Catalog No.: A23683 **Recombinant** **1 Publications**

## Basic Information

### Observed MW

11 kDa

### Calculated MW

11 kDa

### Category

Primary antibody

### Applications

WB,IP,IHC-P,ChIP,ELISA

### Cross-Reactivity

Human, Mouse, Rat, Other (Wide Range Predicted)

### CloneNo number

ARC57733

## Recommended Dilutions

**WB** 1:1000 - 1:3000

**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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✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

## 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; H4F1; 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°C. Avoid freeze / thaw cycles.

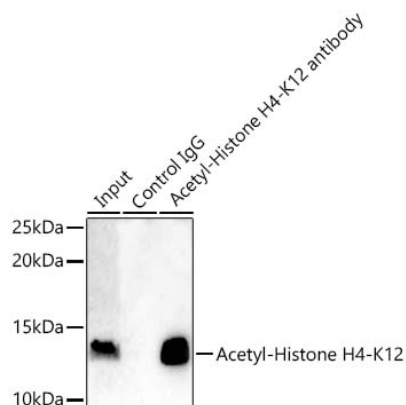
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



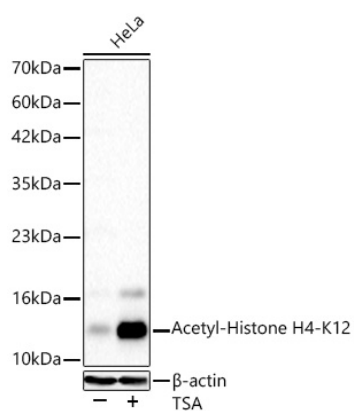
| [www.abclonal.com.cn](http://www.abclonal.com.cn)

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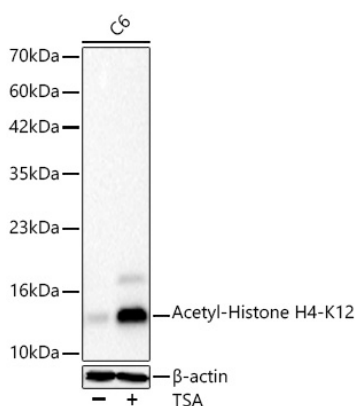
## Validation Data



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

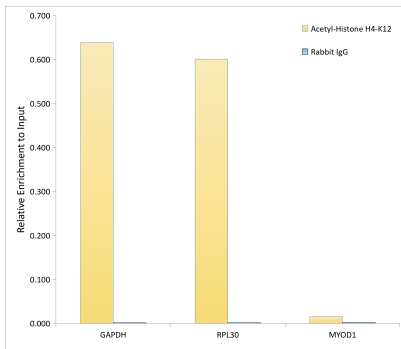


Western blot analysis of lysates from HeLa cells using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at 1:1000 dilution incubated overnight at 4°C. HeLa cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours after serum starvation overnight.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 30  $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10 s.

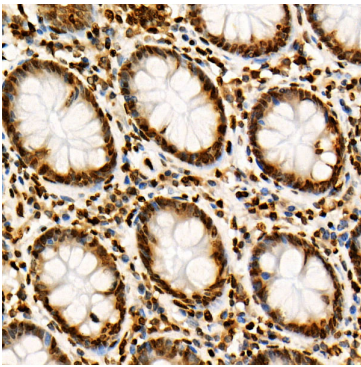


Western blot analysis of lysates from C6 cells using Acetyl-Histone H4-K12 Rabbit mAb (A23683) at 1:1000 dilution incubated overnight at 4°C. C6 cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours after serum starvation overnight.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 30  $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10 s.

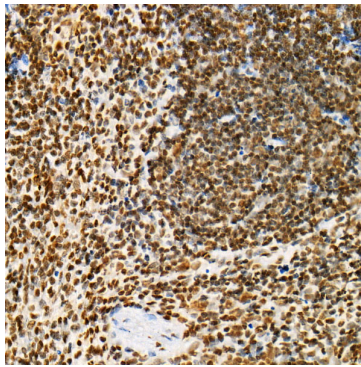
## Validation Data



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.



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.