# Acetyl-Histone H3-K9 Rabbit mAb

Catalog No.: A21107 Recombinant 5 Publications



### **Basic Information**

### **Observed MW**

17kDa

#### **Calculated MW**

15kDa

### Category

Primary antibody

### **Applications**

WB,DB,IHC-P,IF/ICC,IP,ELISA,ChIP,ChIP-seq,CUT&Tag

### **Cross-Reactivity**

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

### CloneNo number

ARC50576

### **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 H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

### **Recommended Dilutions**

WB 1:500 - 1:1000

DB 1:500 - 1:1000

IHC-P 1:100 - 1:500

IF/ICC 1:50 - 1:200

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

**ChIP-seq** 1:50 - 1:100

**CUT&Tag** 10<sup>5</sup> cells /1 μg

### **Immunogen Information**

**Gene ID**8290/8350

Swiss Prot
Q16695/P68431

### **Immunogen**

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

### Synonyms

H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; Acetyl-Histone H3-K9

### **Product Information**

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

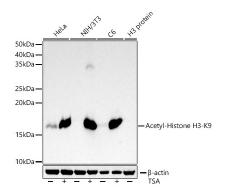
### Storage

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.

## Contact

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$\bowtie$	cn.market@abclonal.com.cr
•	www.abclonal.com.cr



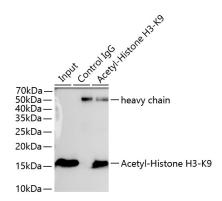
Western blot analysis of various lysates using Acetyl-Histone H3-K9 Rabbit mAb (A21107) at1:1000 dilution. HeLa and NIH/3T3 and C6 cells were treated with TSA (1 uM) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at1:10000 dilution.

Lysates/proteins: 25µg per lane.

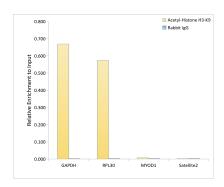
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.



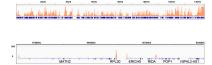
Immunoprecipitation analysis of 600  $\mu$ g extracts of NIH/3T3 cells using 5  $\mu$ g Acetyl-Histone H3-K9 antibody (A21107). Western blot was performed from the immunoprecipitate using Acetyl-Histone H3-K9 antibody (A21107) at a dilution of 1:1000.



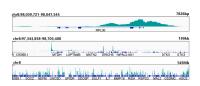
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K9 Rabbit mAb (A21107) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

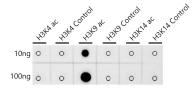


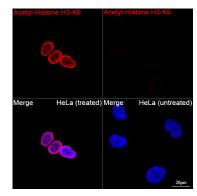
Chromatin immunoprecipitations were performed with cross-linked chromatin from 293F cells and Acetyl-Histone H3-K9 (A21107). The ChIP sequencing results indicate the enrichment pattern of Acetyl-Histone H3-K9 in selected genomic region and representative gene loci (RPL30), as shown in figure.



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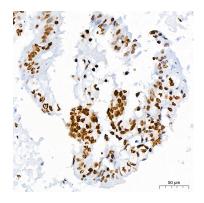




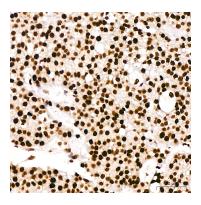
CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from  $10^5$  K562 cells with 1  $\mu$ g Acetyl-Histone H3-K9 Rabbit mAb antibody (A21107), along with a Goat Anti-Rabbit 1 IgG(H+L). The CUT&Tag results indicate the enrichment pattern of Acetyl-Histone H3-K9 in representative gene loci (RPL30), as shown in figure.

Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K9 antibody (A21107) at 1:1000 dilution.

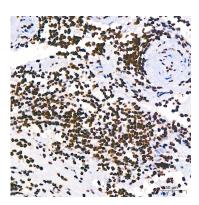
Confocal imaging of HeLa TSA and HeLa cells using Acetyl-Histone H3-K9 Rabbit mAb (A21107,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 100x.



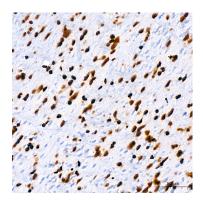
Immunohistochemistry analysis of paraffinembedded Human colon carcinoma using Acetyl-Histone H3-K9 Rabbit mAb (A21107) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



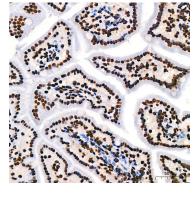
Immunohistochemistry analysis of paraffinembedded Human liver using Acetyl-Histone H3-K9 Rabbit mAb (A21107) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



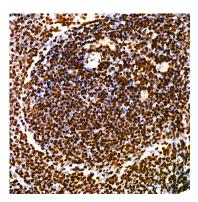
Immunohistochemistry analysis of paraffinembedded Human spleen using Acetyl-Histone H3-K9 Rabbit mAb (A21107) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



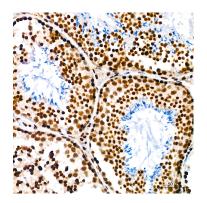
Immunohistochemistry analysis of paraffinembedded Mouse brain using Acetyl-Histone H3-K9 Rabbit mAb (A21107) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Mouse intestin using Acetyl-Histone H3-K9 Rabbit mAb (A21107) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Mouse spleen using Acetyl-Histone H3-K9 Rabbit mAb (A21107) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Mouse testis using Acetyl-Histone H3-K9 Rabbit mAb (A21107) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat brain using Acetyl-Histone H3-K9 Rabbit mAb (A21107) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.