

A15619

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# Acetyl-Histone H2B-K12 Rabbit pAb

Catalog No.: A15619

1 Publications

## Basic Information

### Observed MW

14kDa

### Calculated MW

14kDa

### Category

Polyclonal Antibody

### Applications

WB,IHC-P,IF/ICC,ChIP,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. 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 encodes a replication-dependent histone that is a member of the histone H2B family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. The protein has antibacterial and antifungal antimicrobial activity.

## Recommended Dilutions

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

## Immunogen Information

### Gene ID

3017/8349

### Swiss Prot

P62807/Q16778

### Immunogen

A synthetic acetylated peptide around K12 of human Histone H2B (NP\_003519.1).

### Synonyms

H2B; H2BE; H2BQ; GL105; H2B.1; H2BFQ; H2BGL105; H2B-GL105; HIST2H2BE; Acetyl-Histone H2B-K12

## Contact

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

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

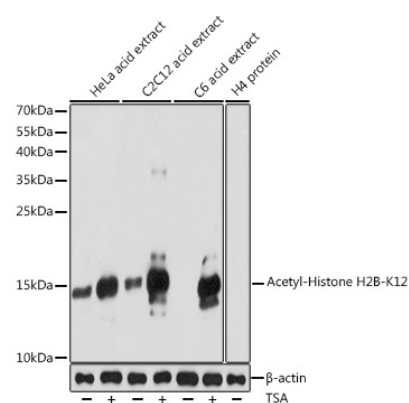
Affinity purification

### Storage

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

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of various lysates using Acetyl-Histone H2B-K12 Rabbit pAb (A15619) at 1:1000 dilution. HeLa cells and C2C12 cells and C6 cells were treated by TSA (1  $\mu$ M) at 37°C for 18 hours.

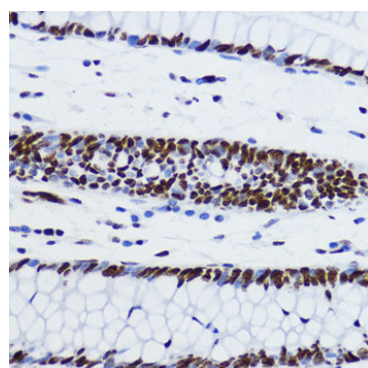
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25  $\mu$ g per lane.

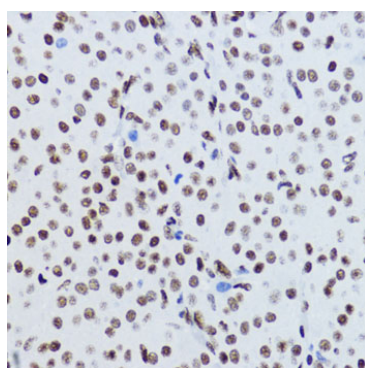
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

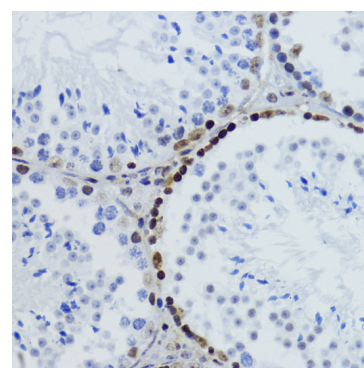
Exposure time: 90s.



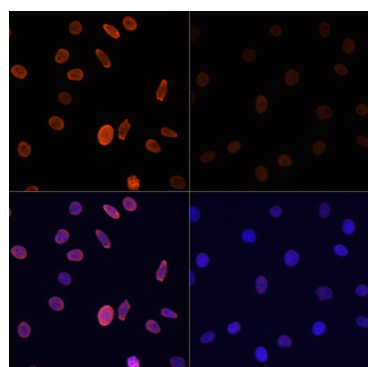
Immunohistochemistry analysis of paraffin-embedded Human colon using Acetyl-Histone H2B-K12 Rabbit pAb (A15619) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



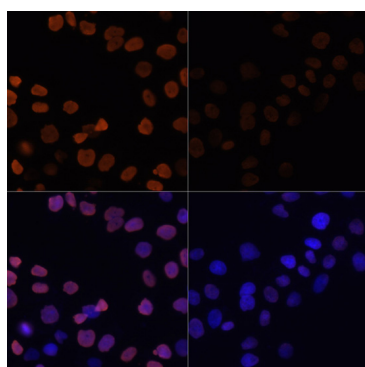
Immunohistochemistry analysis of paraffin-embedded Rat ovary using Acetyl-Histone H2B-K12 Rabbit pAb (A15619) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



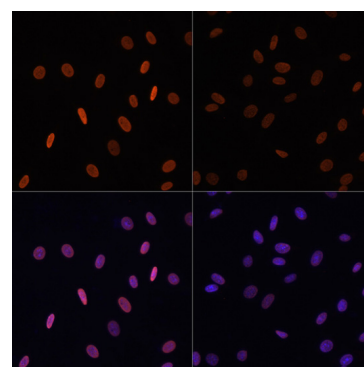
Immunohistochemistry analysis of paraffin-embedded Mouse testis using Acetyl-Histone H2B-K12 Rabbit pAb (A15619) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunofluorescence analysis of C6 cells using Acetyl-Histone H2B-K12 Rabbit pAb (A15619) at dilution of 1:100. C6 cells were treated by TSA (1  $\mu$ M) at 37°C for 18 hours (top left). Blue: DAPI for nuclear staining.

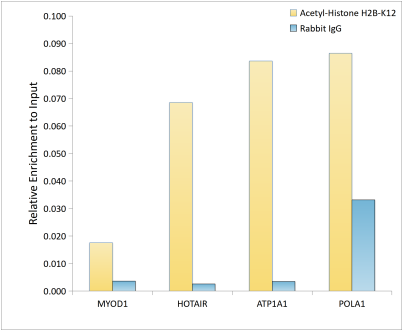


Immunofluorescence analysis of HeLa cells using Acetyl-Histone H2B-K12 Rabbit pAb (A15619) at dilution of 1:100. HeLa cells were treated by TSA (1  $\mu$ M) at 37°C for 18 hours (top left). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Acetyl-Histone H2B-K12 Rabbit pAb (A15619) at dilution of 1:100. NIH/3T3 cells were treated by TSA (1  $\mu$ M) at 37°C for 18 hours (top left). Blue: DAPI for nuclear staining.

# Validation Data



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H2B-K12 antibody (A15619) 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.