

# Histone H2B (testis specific) Rabbit mAb

Catalog No.: A24166 **Recombinant**

## Basic Information

### Observed MW

17kDa

### Calculated MW

14kDa

### Category

Primary antibody

### Applications

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

### Cross-Reactivity

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

### CloneNo number

ARC63457

## Recommended Dilutions

**WB** 1:2000 - 1:6000

**IP** 0.5µg-4µg antibody for  
400µg-600µg extracts of  
whole cells

**IF-P** 1:200 - 1:800

**IHC-P** 1:200 - 1:2000

**ChIP** 5µg antibody for  
5µg-15µg of Chromatin

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 testis/sperm-specific member of the histone H2B family. Transcripts from this gene contain a palindromic termination element.

## Immunogen Information

### Gene ID

255626

### Swiss Prot

Q96A08

### Immunogen

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

### Synonyms

STBP; TH2B; H2BFU; TSH2B; hTSH2B; TSH2B.1; HIST1H2BA; bA317E16.3; Histone H2B (testis specific)?

## 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.

## Contact

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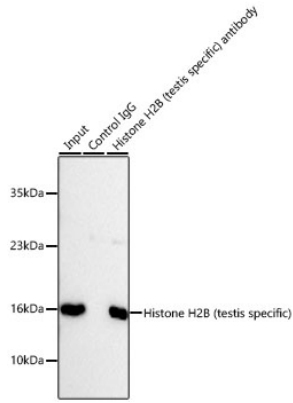
 | 400-999-6126

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

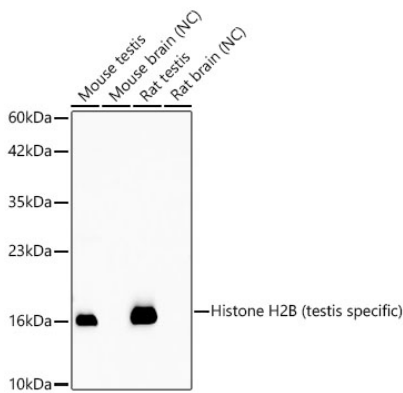
 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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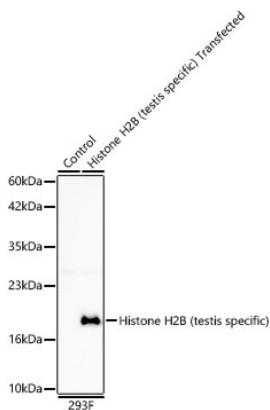
## Validation Data



Immunoprecipitation of Histone H2B (testis specific) from 600 µg extracts of Rat testis tissue was performed using 2 µg of Histone H2B (testis specific) Rabbit mAb (A24166). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X non-reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Histone H2B (testis specific) Rabbit mAb (A24166) at a dilution of 1:1000.

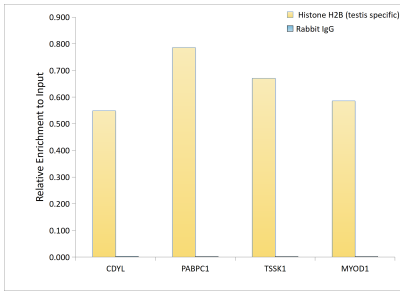


Western blot analysis of various lysates using Histone H2B (testis specific) Rabbit mAb (A24166) at 1:5000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Negative control (NC): Mouse brain, Rat brain.  
Exposure time: 90s.

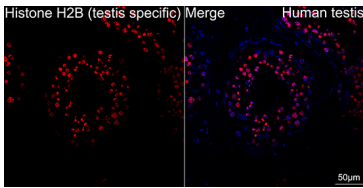


Western blot analysis of lysates from wild type (WT) and 293F cells transfected with Histone H2B (testis specific) using Histone H2B (testis specific) Rabbit mAb (A24166) at 1:5000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.

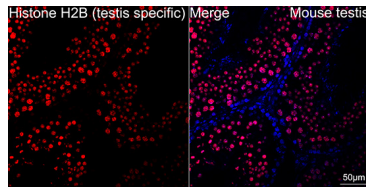
## Validation Data



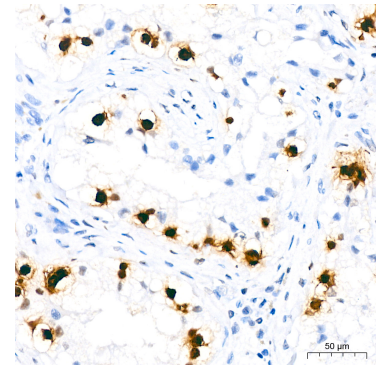
Chromatin immunoprecipitation was performed with cross-linked chromatin from mouse testis, using Histone H2B(testis specific) Rabbit mAb (A24166) and rabbit IgG(AC042) . The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram compares the ratio of the immunoprecipitated DNA versus the input.



Confocal imaging of paraffin-embedded Human testis using Histone H2B (testis specific) Rabbit mAb (A24166,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: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



Confocal imaging of paraffin-embedded Mouse testis using Histone H2B (testis specific) Rabbit mAb (A24166,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: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



Immunohistochemistry analysis of paraffin-embedded Human testis tissue using Histone H2B (testis specific) Rabbit mAb (A24166) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.