

# Histone H3 Rabbit pAb

Catalog No.: A2352 **5 Publications**

## Basic Information

### Observed MW

17kDa

### Calculated MW

16kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IP, ELISA, ChIP

### 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. 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 member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

## Recommended Dilutions

**WB** 1:2000 - 1:10000**IHC-P** 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

## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 50-136 of human HIST3H3 (NP\_003484.1).

### Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; Histone H3

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

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

Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.

## Contact

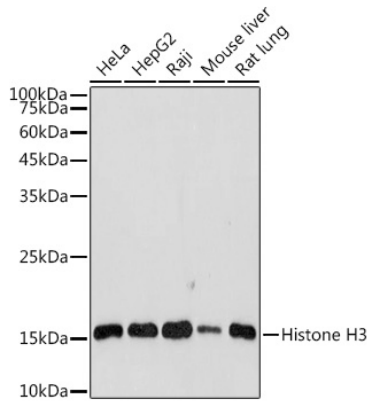
 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)



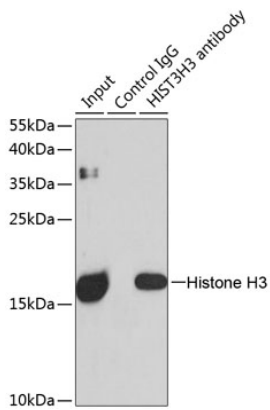
| [www.abclonal.com.cn](http://www.abclonal.com.cn)

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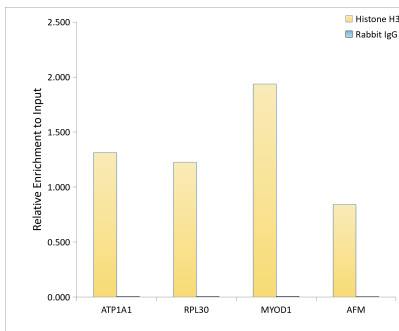
## Validation Data



Western blot analysis of various lysates using Histone H3 Rabbit pAb (A2352) at 1:10000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.



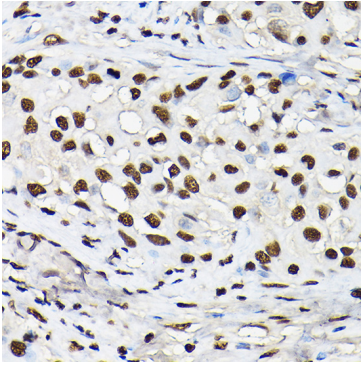
Immunoprecipitation analysis of 150 µg extracts of MCF7 cells using 3 µg Histone H3 antibody (A2352). Western blot was performed from the immunoprecipitate using Histone H3 antibody (A2352) at a dilution of 1:500.



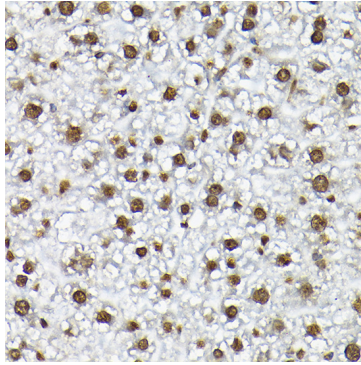
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Histone H3 antibody (A2352) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

## Validation Data

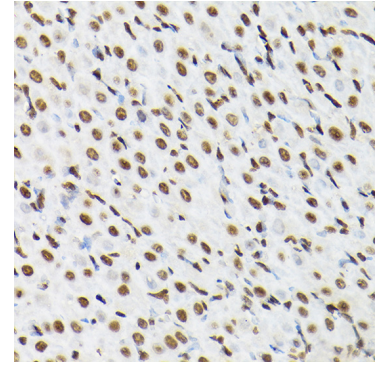
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Immunohistochemistry analysis of paraffin-embedded Human breast cancer using Histone H3 Rabbit pAb (A2352) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver using Histone H3 Rabbit pAb (A2352) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat ovary using Histone H3 Rabbit pAb (A2352) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.