# Histone H3 Rabbit pAb

Catalog No.: A2352 7 Publications



# **Basic Information**

#### **Observed MW**

17 kDa

## **Calculated MW**

15 kDa

## 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

1:50 - 1:200 **IHC-P** 

0.5μg-4μg antibody for ΙP 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

400-999-6126 6 cn.market@abclonal.com.cn  $\sim$ 

## **Immunogen Information**

**Gene ID Swiss Prot** 8290/8350 Q16695/P68431

#### **Immunogen**

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

# **Synonyms**

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

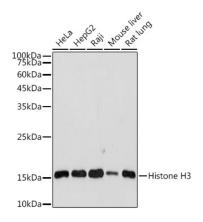
## **Product Information**

Source Isotype **Purification** Rabbit IgG Affinity purification

#### Storage

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

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

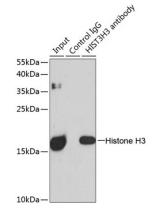


Western blot analysis of various lysates using Histone H3 Rabbit pAb (A2352) at 1:10000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins:  $25\mu g$  per lane.

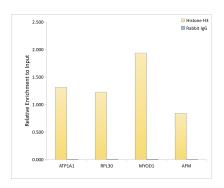
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.

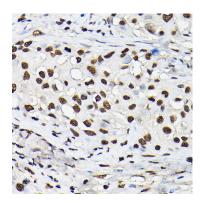


Immunoprecipitation analysis of 150  $\mu$ g extracts of MCF7 cells using 3  $\mu$ g Histone H3 antibody (A2352). Western blot was performed from the immunoprecipitate using Histone H3 antibody (A2352) at a dilution of 1:500

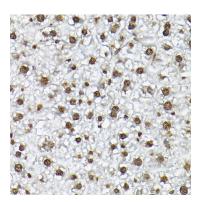


Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Histone H3 antibody (A2352) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

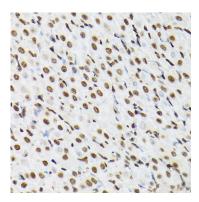
# **Validation Data**



Immunohistochemistry analysis of paraffinembedded 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 buffer (pH 6.0) prior to IHC staining.



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



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