

# [KO Validated] Histone H2A.Z Rabbit mAb

Catalog No.: A4599 **KO Validated** **Recombinant**

## Basic Information

### Observed MW

15kDa

### Calculated MW

13kDa

### Category

Primary antibody

### Applications

ELISA, WB, ChIP

### Cross-Reactivity

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

### CloneNo number

ARC1048

## 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 encodes a replication-independent member of the histone H2A family that is distinct from other members of the family. Studies in mice have shown that this particular histone is required for embryonic development and indicate that lack of functional histone H2A leads to embryonic lethality.

## Recommended Dilutions

**WB** 1:1000 - 1:5000

**ChIP** 5µg antibody for  
5µg-10µg of Chromatin

## Immunogen Information

### Gene ID

3015

### Swiss Prot

P0C0S5

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Histone H2A.Z (P0C0S5).

### Synonyms

H2AZ; H2A.z; H2A/z; H2AFZ; H2A.Z-1; .Z

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

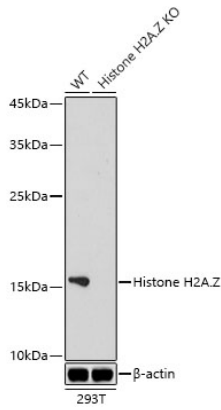
Affinity purification

### Storage

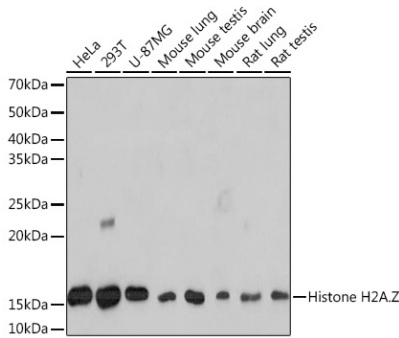
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

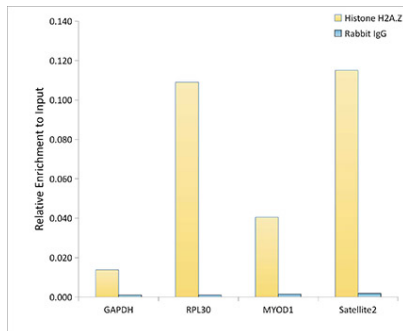
## Validation Data



Western blot analysis of lysates from wild type (WT) and Histone H2A.Z knockout (KO) 293T (KO) cells, using [KO Validated] Histone H2A.Z Rabbit mAb (A4599) at 1:1000 dilution.  
 Secondary antibody: HRP 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: 1s.



Western blot analysis of various lysates using Histone H2A.Z Rabbit mAb (A4599) at 1:1000 dilution.  
 Secondary antibody: HRP 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: 30s.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Histone H2A.Z Rabbit mAb antibody (A4599) 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.