

A4599

Leader in Biomolecular Solutions for Life Science



## [KO Validated] Histone H2A.Z Rabbit mAb

Catalog No.: A4599

**KO** Validated

Recombinant

1 Publications

### Basic Information

#### Observed MW

14kDa

#### Calculated MW

14kDa

#### Category

SMab Recombinant Monoclonal  
Antibody

#### Applications

WB,ChIP,ELISA

#### Cross-Reactivity

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

#### CloneNo number

ARC1048

### Recommended Dilutions

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

**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



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

### 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.

### Immunogen Information

**Gene ID**  
3015

**Swiss Prot**  
P0C0S5

#### Immunogen

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

#### Synonyms

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

### Product Information

**Source**  
Rabbit

**Isotype**  
IgG

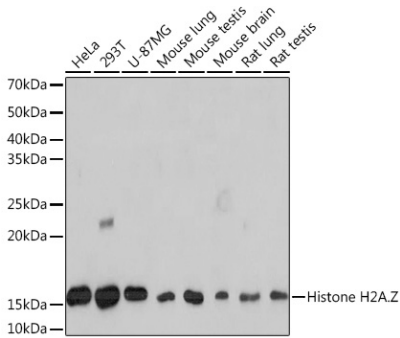
**Purification**  
Affinity purification

#### Storage

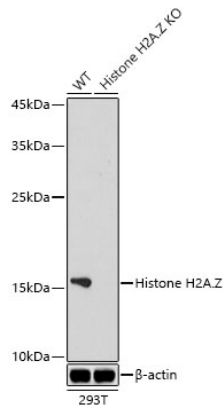
Store at -20°C. Avoid freeze / thaw cycles.

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

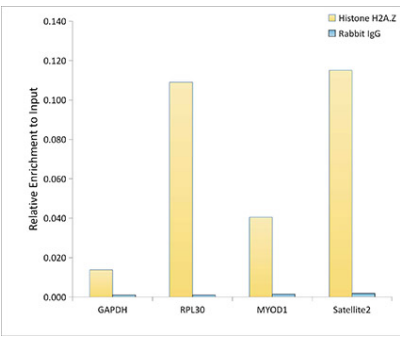
Validation Data



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



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-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: 1s.



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.