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[KO Validated] Histone H2A.Z Rabbit mAb

Catalog No.: A4599 KO Validated Recombinant 1 Publications

Basic Information

Observed MW
14kDa/

Calculated MW
14kDa

Category
Primary antibody

Applications
WB,IP,ELISA,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
IP	0.5μg-4μg antibody for 100μg-300μg 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
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℃. 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.

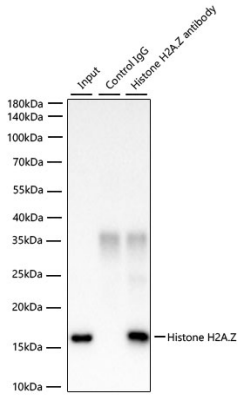
Contact

400-999-6126

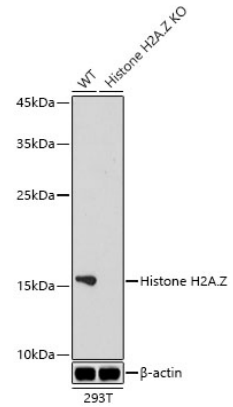
cn.market@abclonal.com.cn

www.abclonal.com.cn

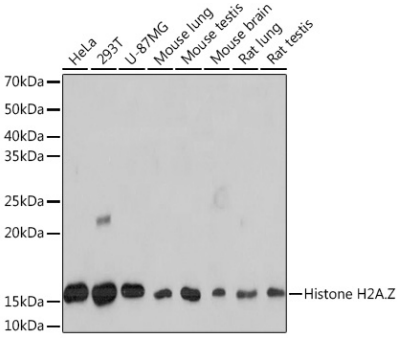
Validation Data



Immunoprecipitation of Histone H2A.Z from 100 µg extracts of HeLa cells was performed using 3 µg of [KO Validated] Histone H2A.Z Rabbit mAb (A4599). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KO Validated] Histone H2A.Z Rabbit mAb (A4599) at a dilution of 1:1000.

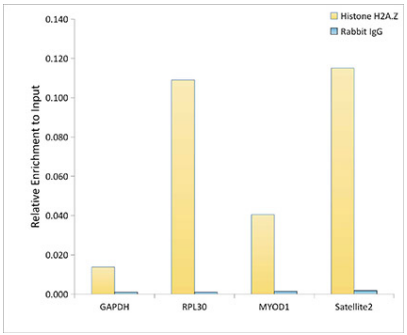


Western blot analysis of lysates from wild type(WT) and Histone H2A.Z knockout (KO) 293T(KO) cells, using [KO Validated] Histone H2A.Z Rabbit mAb (A4599) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



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.

Validation Data



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.