

Histone H2A Rabbit mAb

Catalog No.: A29391 **Recombinant**

Basic Information

Observed MW

14 kDa

Calculated MW

14 kDa

Category

Primary antibody

Applications

WB, IF/ICC, ChIP, ELISA

Cross-Reactivity

Human, Mouse, Rat, Monkey

CloneNo number

ARC4000

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 H2A family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

Recommended Dilutions

WB 1:1000 -
1:10000(Human&Monkey)
1:10000 -
1:50000(Mouse&Rat)

IF/ICC 1:300 - 1:600

ChIP 2 µg antibody for 10 µg - 15
µg of Chromatin

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay requirements.
For high-ratio antibody
dilutions ($\geq 1:10000$) a
sequential dilution method
is strongly recommended to
ensure measurement
accuracy.

Immunogen Information

Gene ID

3012/8329

Swiss Prot

P04908/P0C0S8

Immunogen

This information is considered to be commercially sensitive.

Synonyms

H2A.1; H2A.2; H2A/a; H2AC4; H2AFA; HIST1H2AE; Histone H2A

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, 0.05% BSA, 50% glycerol, pH7.3.

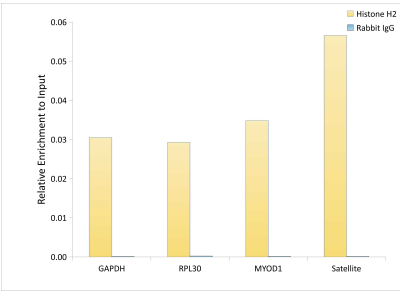
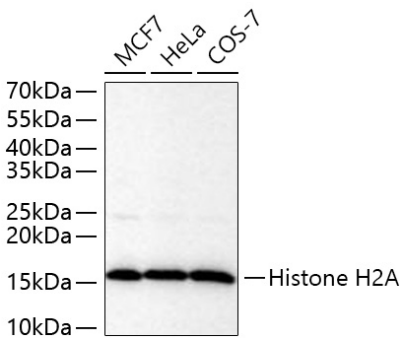
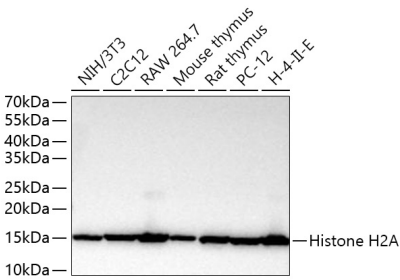
Contact

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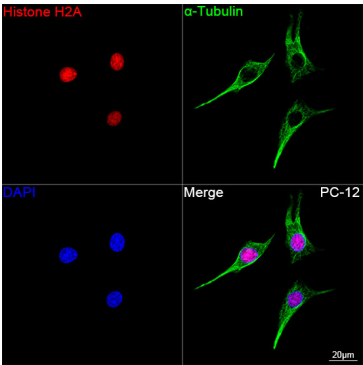
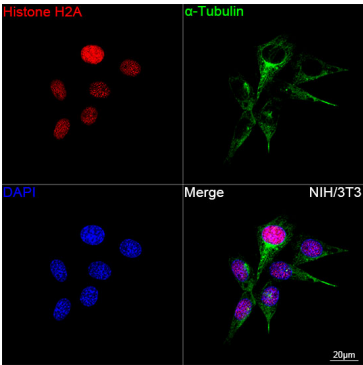
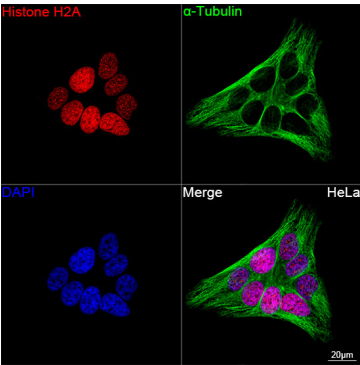
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Validation Data



Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from HeLa cells, using 2 µg of Histone H2A Rabbit mAb (A29391) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Validation Data

(AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

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