

Citrulline-Histone H3-R2 Rabbit mAb

Catalog No.: A28986 **Recombinant**

Basic Information

Observed MW

17 kDa(C-terminal protein)

Calculated MW

15 kDa

Category

Primary antibody

Applications

WB,IP,ELISA

Cross-Reactivity

Human, Mouse

CloneNo number

ARC3866

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 1:3000 - 1:20000**IP** 0.5 µg- 4 µg antibody for
400 µg - 600 µg extracts of
whole cells**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.

Contact

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Immunogen Information

Gene ID

8290/8350

Swiss Prot

Q16695/P68431

Immunogen

This information is considered to be commercially sensitive.

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

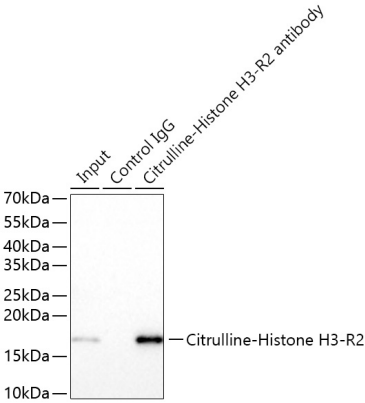
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3

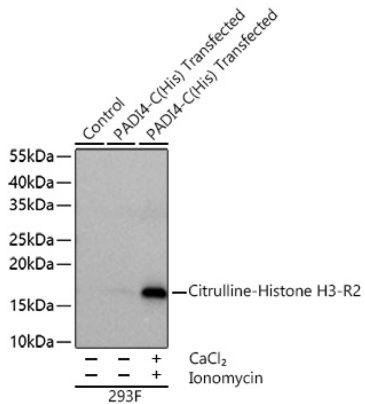


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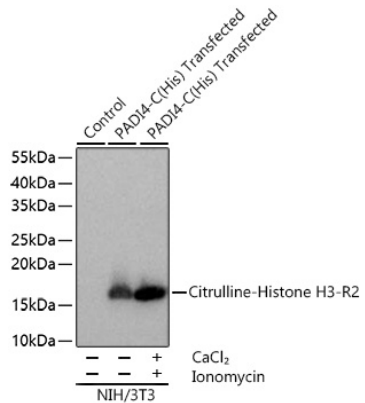
Validation Data



Immunoprecipitation of Citrulline-Histone H3-R2 from 600 µg extracts of 293F cells were transfected with PADI4 and then treated with CaCl₂ (10 nM, 4h) and ionomycin (10 µM, 4h) was performed using 2 µg of Citrulline-Histone H3-R2 Rabbit mAb (A28986). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Citrulline-Histone H3-R2 Rabbit mAb (A28986) at a dilution of 1:1000.



Western blot analysis of various lysates using Citrulline-Histone H3-R2 Rabbit mAb (A28986) at 1:7000 dilution incubated overnight at 4°C. 293F cells were transfected with PADI4 and then treated with CaCl₂ (10 nM) at 37°C for 4 hours and ionomycin (10 µM) at 37°C for 4 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 20 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10 s.



Western blot analysis of various lysates using Citrulline-Histone H3-R2 Rabbit mAb (A28986) at 1:7000 dilution incubated overnight at 4°C. NIH/3T3 cells were transfected with PADI4 and then treated with CaCl₂ (10 nM) at 37°C for 4 hours and ionomycin (10 µM) at 37°C for 4 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 20 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1 s.