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Citrulline-Histone H3-R17 Rabbit mAb

Catalog No.: A29298 Recombinant

Basic Information

Observed MW
17 kDa

Calculated MW
15 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC3868

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 found in the large 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
IF/ICC	1:200 - 1:800
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
This information is considered to be commercially sensitive.

Synonyms
H3.4; H3/g; H3C16; H3FT; H3t; HIST3H3; H3/A; H3FA; HIST1H3A

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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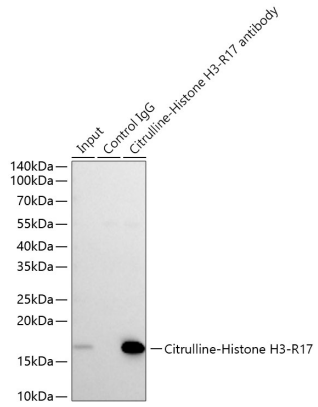
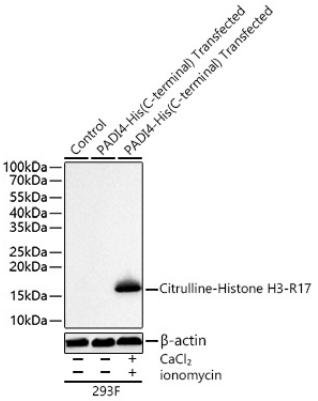
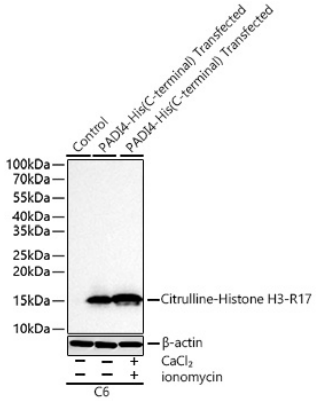
Validation Data



Immunoprecipitation of Citrulline-Histone H3-R17 from 600 µg extracts of 293F cells were transfected with PADI4 and then treated with $CaCl_2$ (10 nM, 4h) and ionomycin (10 µM, 4h) was performed using 2 µg of Citrulline-Histone H3-R17 Rabbit mAb (A29298). 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-R17 Rabbit mAb (A29298) at a dilution of 1:1000.

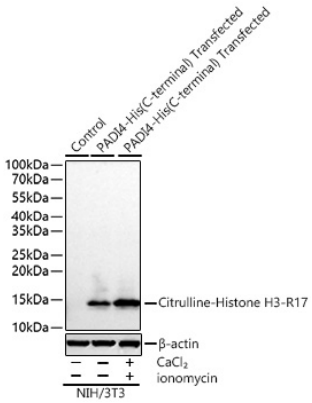


Western blot analysis of lysates from 293F cells using Citrulline-Histone H3-R17 Rabbit mAb (A29298) at 1:20000 dilution incubated overnight at 4℃. 293F cells were transfected with PADI4 and then treated with $CaCl_2$ (10 nM) at 37℃ for 4 hours and ionomycin (10 µM) at 37℃ for 4 hours.
Secondary antibody: 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: 0.5 s.

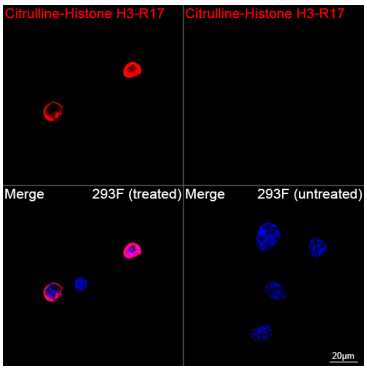


Western blot analysis of lysates from C6 cells using Citrulline-Histone H3-R17 Rabbit mAb (A29298) at 1:5000 dilution incubated overnight at 4℃. C6 cells were transfected with PADI4 and then treated with $CaCl_2$ (10 nM) at 37℃ for 4 hours and ionomycin (10 µM) at 37℃ for 4 hours.
Secondary antibody: 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.

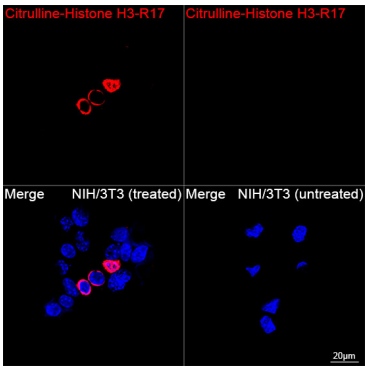
Validation Data



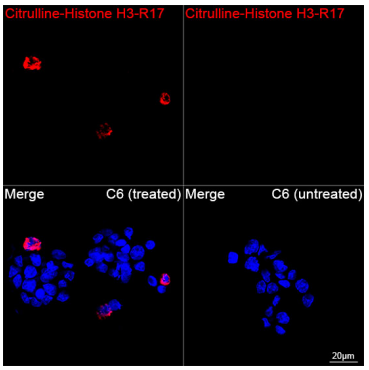
Western blot analysis of lysates from NIH/3T3 cells using Citrulline-Histone H3-R17 Rabbit mAb (A29298) at 1:5000 dilution incubated overnight at 4℃. NIH/3T3 cells were transfected with PADI4 and then treated with $CaCl_2$ (10 nM) at 37℃ for 4 hours and ionomycin (10 μM) at 37℃ for 4 hours.
Secondary 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: 45 s.



Confocal imaging of 293F cells transfected with PADI4 and treated with ionomycin plus $CaCl_2$, and untreated 293F cells using Citrulline-Histone H3-R17 Rabbit mAb (A29298, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells transfected with PADI4 and treated with ionomycin plus $CaCl_2$, and untreated NIH/3T3 cells using Citrulline-Histone H3-R17 Rabbit mAb (A29298, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells transfected with PADI4 and treated with ionomycin plus $CaCl_2$, and untreated C6 cells using Citrulline-Histone H3-R17 Rabbit mAb (A29298, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.