

Phospho-Histone H2AX-S139 Rabbit mAb

Catalog No.: AP1555

Recombinant

2 Publications

Basic Information

Observed MW

17 kDa

Calculated MW

15 kDa

Category

Primary antibody

Applications

WB,Auto WB,IP,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC70654

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a replication-independent histone that is a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif.

Recommended Dilutions

WB 1:1000 - 1:4000

Auto WB 1:100 - 1:500

IP 0.5µg-4µg antibody for
200µg-900µg extracts of
whole cells

IF/ICC 1:400-1:4000

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID

3014

Swiss Prot

P16104

Immunogen

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

Synonyms

H2A.X; H2A/X; H2AFX

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

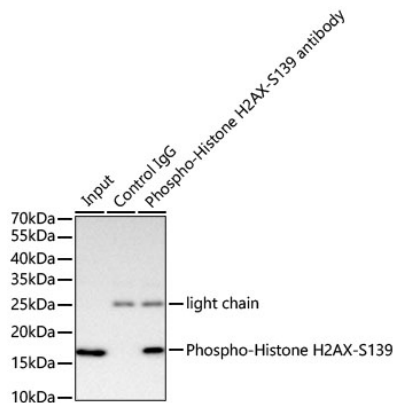
Affinity purification

Storage

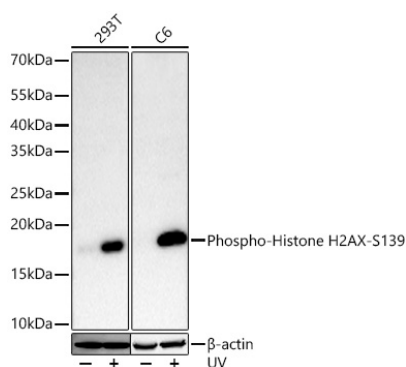
Store at -20°C. Avoid freeze / thaw cycles.

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

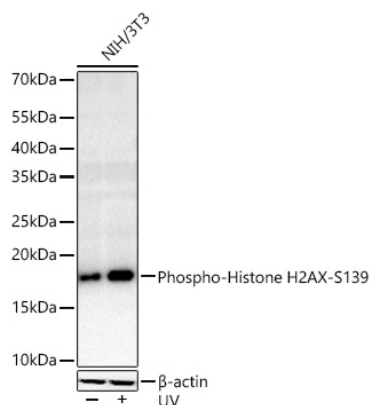
Validation Data



Immunoprecipitation of Phospho-Histone H2AX-S139 from 882 μg extracts of 293T cells treated with UV (90 mJ/cm² 2 h) was performed using 1 μg of Phospho-Histone H2AX-S139 Rabbit mAb (AP1555). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x non-reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-Histone H2AX-S139 Rabbit mAb (AP1555) at a dilution of 1:1000.

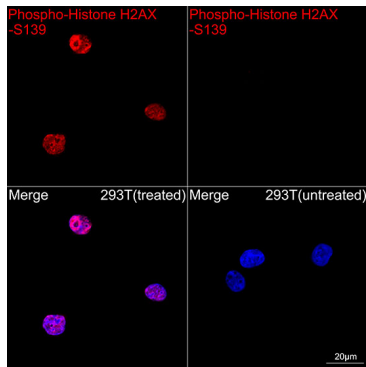


Western blot analysis of various lysates using Phospho-Histone H2AX-S139 Rabbit mAb (AP1555) at 1:1000 dilution incubated overnight at 4°C. 293T cells were treated with UV (150 mJ/cm²) at 37°C for 2 hours, C6 cells were treated with UV (90 mJ/cm²) at 37°C for 2 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20s.

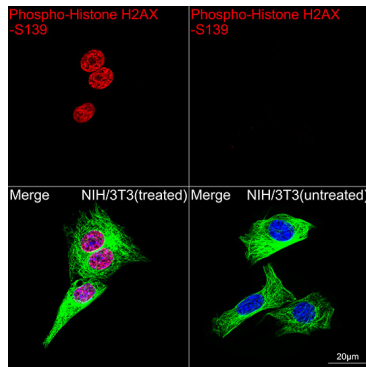


Western blot analysis of lysates from NIH/3T3 cells using Phospho-Histone H2AX-S139 Rabbit mAb (AP1555) at 1:1000 dilution incubated overnight at 4°C. NIH/3T3 cells were treated with UV (120 mJ/cm²) at 37°C for 1 hour. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 45s.

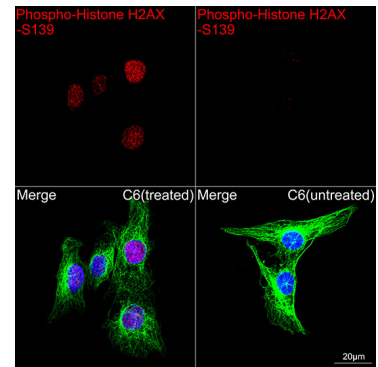
Validation Data



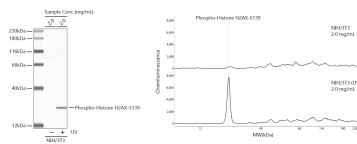
Confocal imaging of 293T cells (treated with UV) and 293T cells (untreated) using Phospho-Histone H2AX-S139 Rabbit mAb (AP1555, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells (treated with UV) and NIH/3T3 cells (untreated) using Phospho-Histone H2AX-S139 Rabbit mAb (AP1555, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells (treated with UV) and C6 cells (untreated) using Phospho-Histone H2AX-S139 Rabbit mAb (AP1555, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Simple Western™ analysis of lysates from NIH/3T3 cells and NIH/3T3 cells were treated with UV (120 mJ/cm²) at 37°C for 1 hour, using Phospho-Histone H2AX-S139 Rabbit mAb (AP1555) at 1:100 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.