

Phospho-Histone H2AX-S139 Rabbit pAb

Catalog No.: AP0099SP **83 Publications**

Basic Information

Observed MW

17 kDa

Calculated MW

15 kDa

Category

Primary antibody

Applications

WB,IP,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse, Rat

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 - 1:5000

IP 0.5 µg - 4µg antibody for
800 µg - 1000 µg
extracts of whole cells

IF/ICC 1:2000 - 1:8000

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

3014

Swiss Prot

P16104

Immunogen

This information is considered to be commercially sensitive.

Synonyms

H2A.X; H2A/X; H2AFX; Phospho-Histone H2AX-S139

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

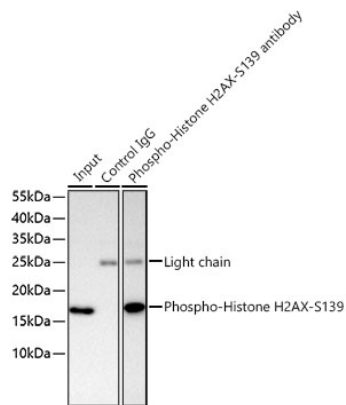
Contact

 | 400-999-6126

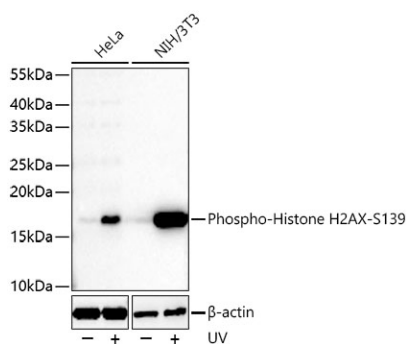
 | cn.market@abclonal.com.cn

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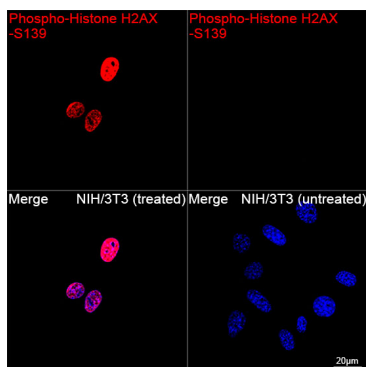
Validation Data



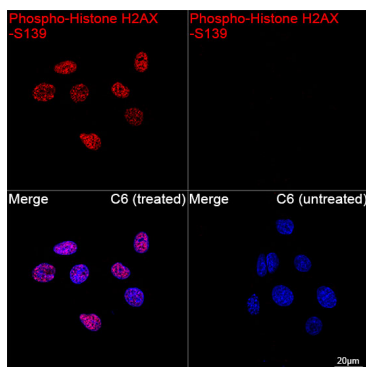
Immunoprecipitation of Phospho-Histone H2AX-S139 from 882 μ g extracts of 293T cells treated with UV (60mJ/cm², 2 hours) was performed using 1 μ g of Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP) at a dilution of 1:1000.



Western blot analysis of various lysates using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP) at 1:5000 dilution incubated overnight at 4°C. HeLa cells were treated with UV (120mJ) at 37°C for 40min. NIH/3T3 cells were treated with UV (120mJ) at 37°C for 40min. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60 s.



Confocal imaging of NIH/3T3 cells (treated with UV) and NIH/3T3 cells (untreated) using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP, dilution 1:5000) 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 (treated with UV) and C6 cells (untreated) using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP, dilution 1:5000) 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.