

# Phospho-Histone H2AX-S139 Rabbit mAb

Catalog No.: AP0687

Recombinant

33 Publications

## Basic Information

### Observed MW

17kDa/15kDa

### Calculated MW

15kDa

### Category

Primary antibody

### Applications

WB,IHC-P,IF/ICC,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC0110

## 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

<b>WB</b>	1:500 - 1:1000
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<b>IHC-P</b>	1:500 - 1:2000
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<b>IF/ICC</b>	1:2000 - 1:8000
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<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
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## Immunogen Information

### Gene ID

3014

### Swiss Prot

P16104

### Immunogen

A synthetic phosphorylated peptide around S139 of human Histone H2A.X (P16104).

### Synonyms

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

## Contact

		400-999-6126
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		cn.market@abclonal.com.cn
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		www.abclonal.com.cn
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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

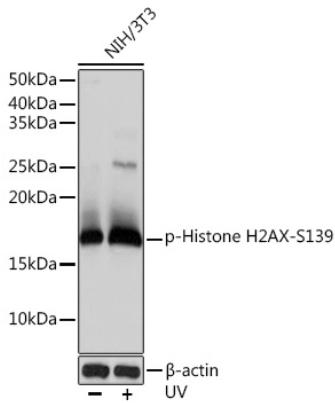
Affinity purification

### Storage

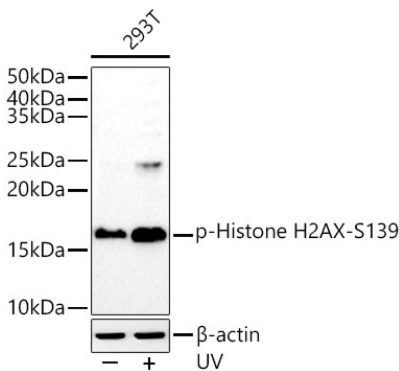
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

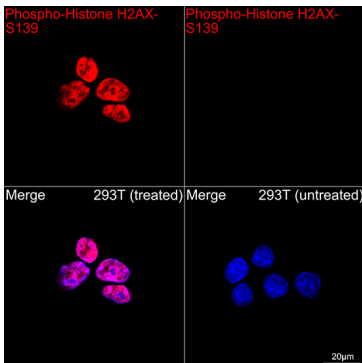
## Validation Data



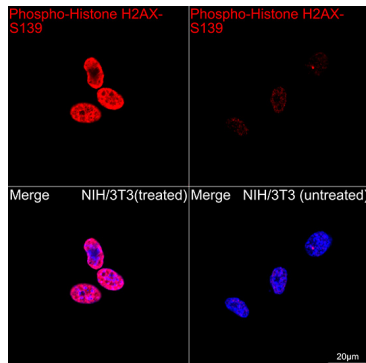
Western blot analysis of lysates from NIH/3T3 cells, using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at 1:1000 dilution. NIH/3T3 cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



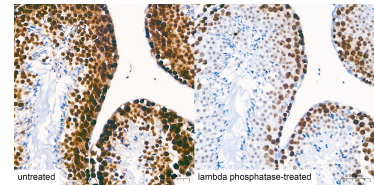
Western blot analysis of lysates from 293T cells, using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at 1:1000 dilution. 293T cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Confocal imaging of 293T cells (treated with UV) and 293T cells (untreated) using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687, dilution 1:5000) 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.



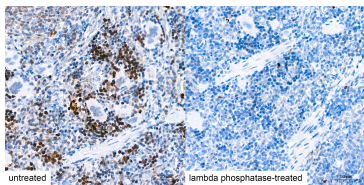
Confocal imaging of NIH/3T3 cells (treated with UV) and NIH/3T3 cells (untreated) using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687, dilution 1:5000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.