

# Phospho-Histone H2AX-S139 Rabbit mAb

Catalog No.: AP0687

Recombinant

66 Publications

## Basic Information

### Observed MW

15 kDa

### Calculated MW

15 kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,IHC-P,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

**WB** 1:7000 - 1:39000

**IF/ICC** 1:200 - 1:1000

**IHC-P** 1:2000 - 1:8000

**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; Phospho-Histone H2AX-S139

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

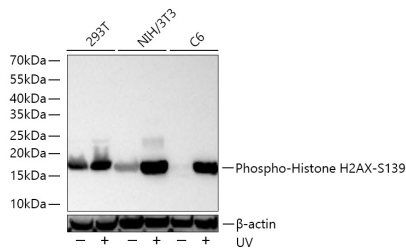
Affinity purification

### Storage

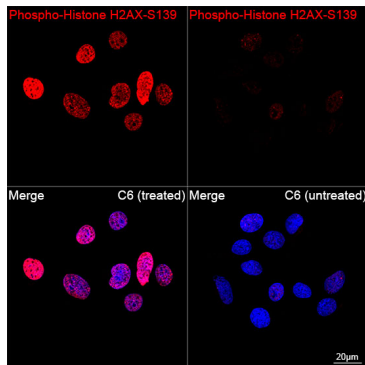
Store at -20°C. Avoid freeze / thaw cycles.

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

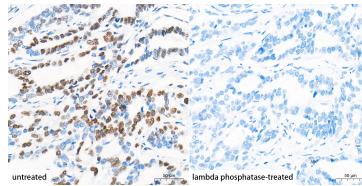
## Validation Data



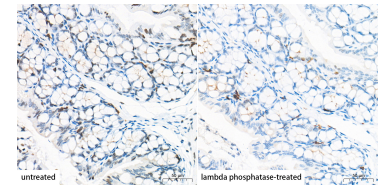
Western blot analysis of various lysates using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at 1:7000 dilution incubated overnight at 4°C. 293T, NIH/3T3 and C6 cells were treated with UV at room temperature for 15-30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20 s.



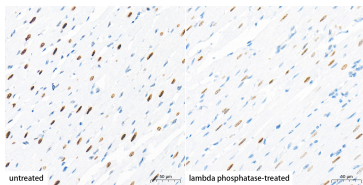
Confocal imaging of C6 cells (treated with UV) and C6 cells (untreated) using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue, untreated (left) and lambda phosphatase-treated (right), tissue using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue, untreated (left) and lambda phosphatase-treated (right), tissue using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat heart tissue, untreated (left) and lambda phosphatase-treated (right), tissue using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.