

# Phospho-Histone H2AX-S139 Rabbit mAb

Catalog No.: AP1555 **Recombinant**

## Basic Information

### Observed MW

15-17kDa/17kDa

### Calculated MW

15kDa

### Category

Primary antibody

### Applications

WB,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

## Immunogen Information

### Gene ID

3014

### Swiss Prot

P16104

### Immunogen

A synthetic phosphorylated peptide around S139 of human Histone H2AX (NP\_002096.1).

### Synonyms

H2A.X; H2A/X; H2AFX

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

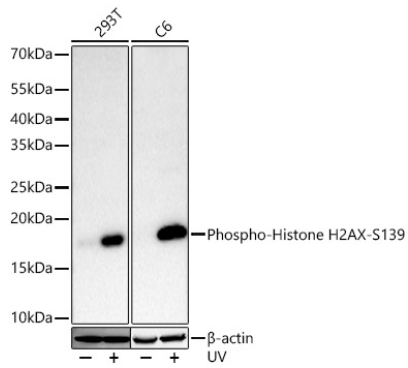
Affinity purification

### 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



Western blot analysis of various lysates using Phospho-Histone H2AX-S139 Rabbit mAb (AP1555) at 1:1000 dilution incubated overnight at 4°C. 293T and C6 cells were treated by UV at room temperature for 15-30 minutes.

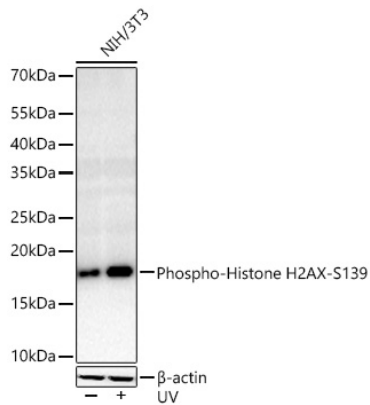
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30  $\mu$ g 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 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: 30  $\mu$ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45s.