

# Phospho-Histone H2AX-S139 Rabbit mAb

Catalog No.: AP0687

Recombinant

6 Publications

## Basic Information

### Observed MW

17kDa

### Calculated MW

15kDa

### Category

Primary antibody

### Applications

WB,IHC

### 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. [provided by RefSeq, Oct 2015]

## Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:200

## 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;H2AX;Histone H2AX;H2AFX;histone H2AX;gamma H2A.X;γH2AX

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

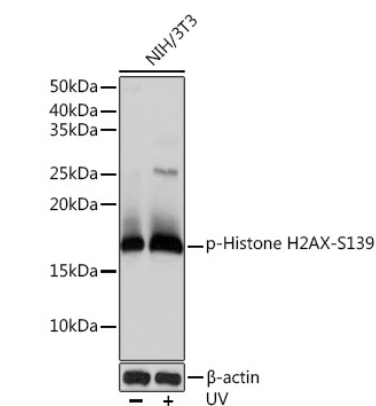
Affinity purification

### Storage

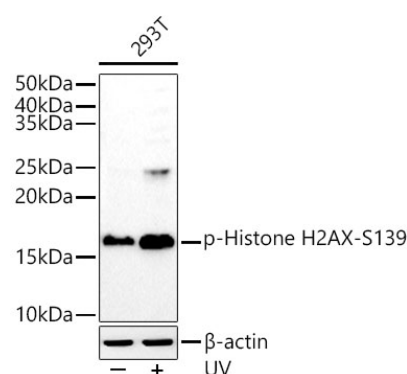
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thiomersal, 0.05% BSA, 50% glycerol, pH7.3.

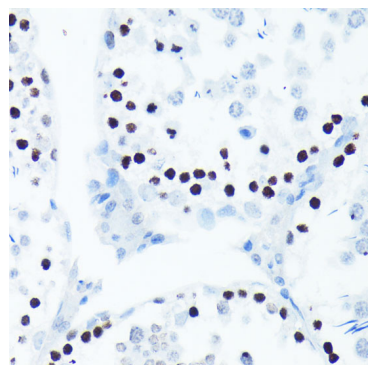
## Validation Data



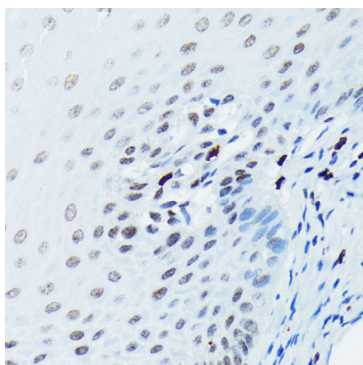
Western blot analysis of extracts of NIH/3T3 cells, using Phospho-Histone H2AX-S139 antibody (AP0687) at 1:1000 dilution. NIH/3T3 cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per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



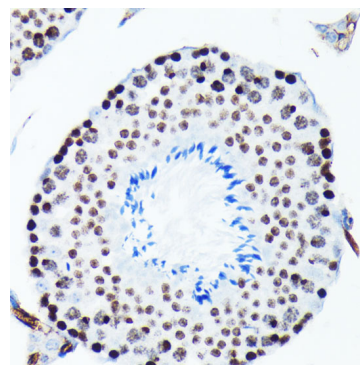
Western blot analysis of extracts of 293T cells, using Phospho-Histone H2AX-S139 antibody (AP0687) at 1:1000 dilution. 293T cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane.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



Immunohistochemistry of paraffin-embedded rat testis using Phospho-Histone H2AX-S139 antibody (AP0687) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded human esophageal using Phospho-Histone H2AX-S139 antibody (AP0687) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded mouse testis using Phospho-Histone H2AX-S139 antibody (AP0687) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.