

Phospho-Histone H2AX-S139 Rabbit pAb

Catalog No.: AP0099 **11 Publications**

Basic Information

Catalog No.

AP0099

Observed MW

15KDa

Calculated MW

15kDa

Category

Primary antibody

Applications

WB, IHC, IF

Cross-Reactivity

Human, Mouse, Rat

Recommended Dilutions

WB	1:500 - 1:1000
IHC	1:50 - 1:100
IF	1:50 - 1:100

Contact

 | www.abclonal.com

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.

Immunogen Information

Gene ID	Swiss Prot
3014	P16104

Immunogen

A synthetic phosphorylated peptide around S139 of human Histone H2AX (NP_002096.1).

Synonyms

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

Product Information

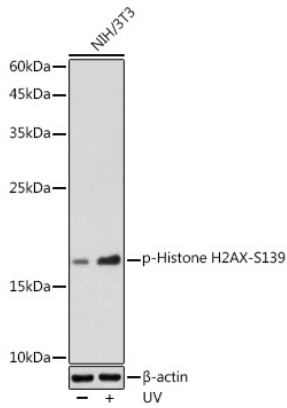
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

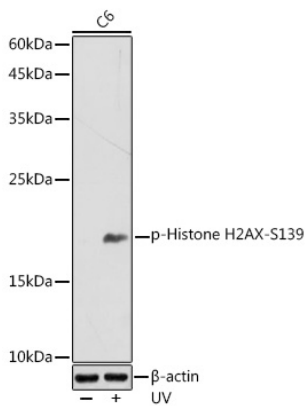
Store at -20°C. Avoid freeze / thaw cycles.

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

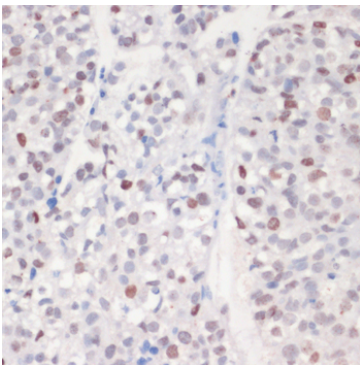
Validation Data



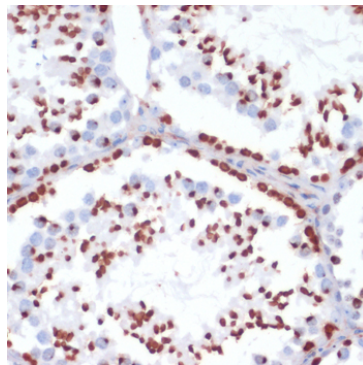
Western blot analysis of extracts of NIH/3T3 cells, using Phospho-Histone H2AX-S139 antibody (AP0099) at 1:500 dilution. NIH/3T3 cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



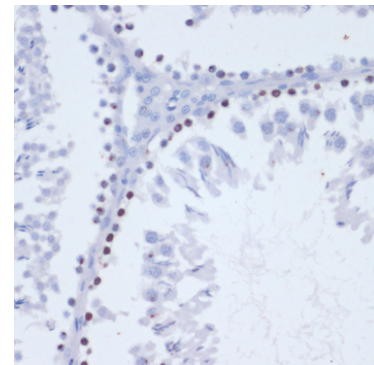
Western blot analysis of extracts of C6 cells, using Phospho-Histone H2AX-S139 antibody (AP0099) at 1:500 dilution. C6 cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



Immunohistochemistry of paraffin-embedded human gastric cancer using Phospho-Histone H2AX-S139 antibody (AP0099) at dilution of 1:200 (40x lens).

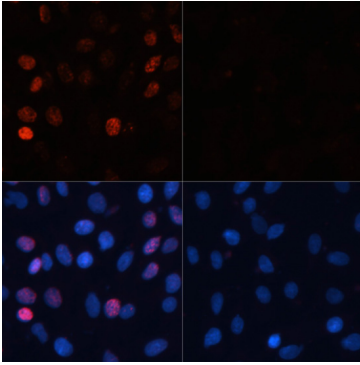


Immunohistochemistry of paraffin-embedded mouse testis using Phospho-Histone H2AX-S139 antibody (AP0099) at dilution of 1:200 (40x lens).

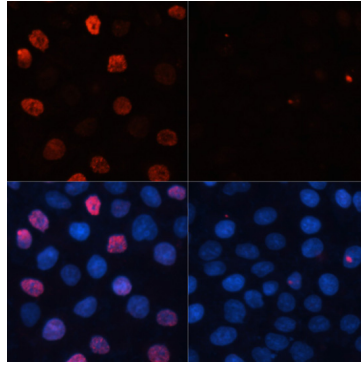


Immunohistochemistry of paraffin-embedded rat testis using Phospho-Histone H2AX-S139 antibody (AP0099) at dilution of 1:200 (40x lens).

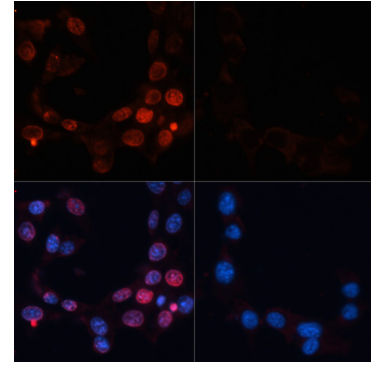
Validation Data



Immunofluorescence analysis of C6 cells using Phospho-Histone H2AX-S139 antibody (AP0099) at dilution of 1:100. Blue: DAPI for nuclear staining. C6 cells were treated by UV for 15-30 minutes at RT (left). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using Phospho-Histone H2AX-S139 antibody (AP0099) at dilution of 1:100. Blue: DAPI for nuclear staining. HeLa cells were treated by UV for 15-30 minutes at RT (left). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Phospho-Histone H2AX-S139 antibody (AP0099) at dilution of 1:100. Blue: DAPI for nuclear staining. NIH/3T3 cells were treated by UV for 15-30 minutes at RT (left). Blue: DAPI for nuclear staining.