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Phospho-Histone H2AX-S139 Rabbit pAb

Catalog No.: AP0099 52 Publications

Basic Information

Observed MW
17kDa

Calculated MW
15kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P,IF/ICC

Cross-Reactivity
Human, Mouse, Rat

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	1:100 - 1:500
IHC-P	1:50 - 1:200
IF/ICC	1:100 - 1:500

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; Phospho-Histone H2AX-S139

Contact

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Product Information

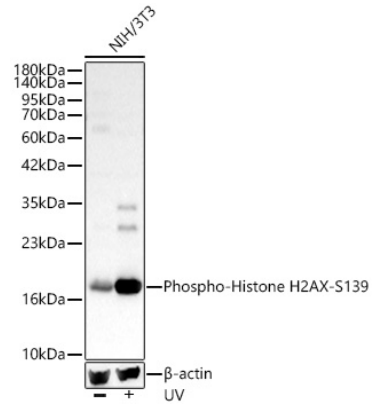
Source
Rabbit

Isotype
IgG

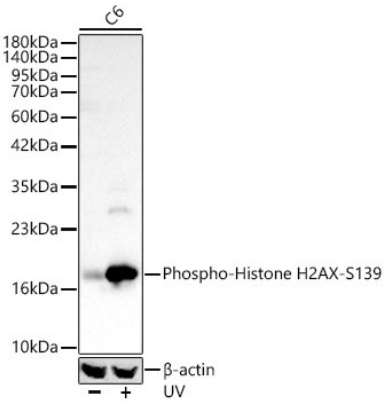
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

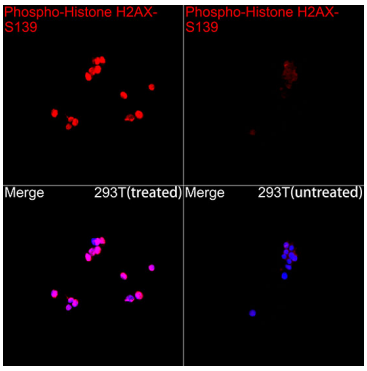
Validation Data



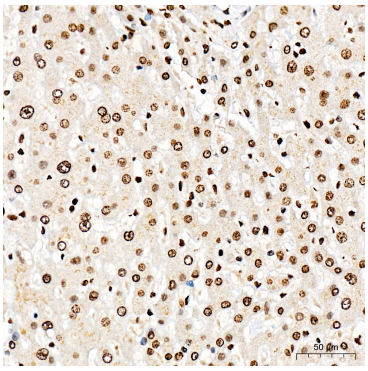
Western blot analysis of lysates from NIH/3T3 cells using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099) at 1:400 dilution. NIH/3T3 cells were treated by UV at room temperature for 15-30 minutes.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.



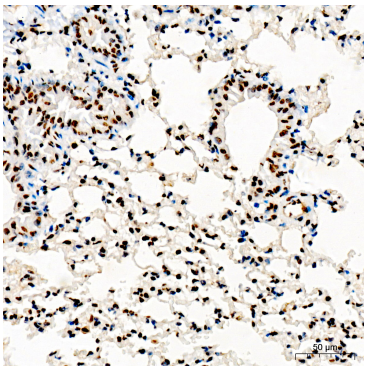
Western blot analysis of lysates from C6 cells using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099) at 1:400 dilution. C6 cells were treated by UV at room temperature for 15-30 minutes.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.



Immunofluorescence analysis of 293T(treated with UV) and 293T(untreated) cells using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

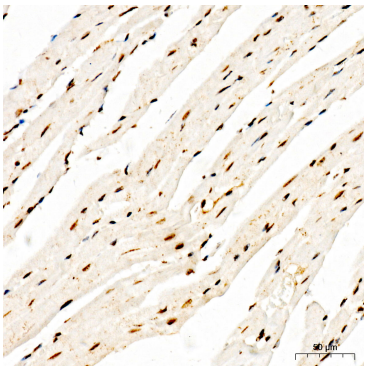


Immunohistochemistry analysis of Phospho-Histone H2AX-S139 in paraffin-embedded human liver tissue using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

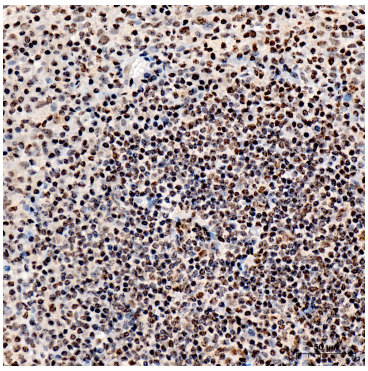


Immunohistochemistry analysis of Phospho-Histone H2AX-S139 in paraffin-embedded rat lung tissue using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of Phospho-Histone H2AX-S139 in paraffin-embedded mouse heart tissue using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-Histone H2AX-S139 in paraffin-embedded human tonsil tissue using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.