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Phospho-Histone H2AX-S139 Rabbit pAb

Catalog No.: AP0099SP **83 Publications**

Basic Information

Observed MW
17 kDa

Calculated MW
15 kDa

Category
Primary antibody

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

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	1:2000 - 1:5000
IP	0.5 μg - 4 μg antibody for 800 μg - 1000 μg extracts of whole cells
IF/ICC	1:2000 - 1:8000
IHC-P	1:2000 - 1:8000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
3014

Swiss Prot
P16104

Immunogen
This information is considered to be commercially sensitive.

Synonyms
H2A.X; H2A/X; H2AFX; Phospho-Histone H2AX-S139

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.
May contain 0.05% BSA as specified on the Certificate of Analysis.

Contact

400-999-6126

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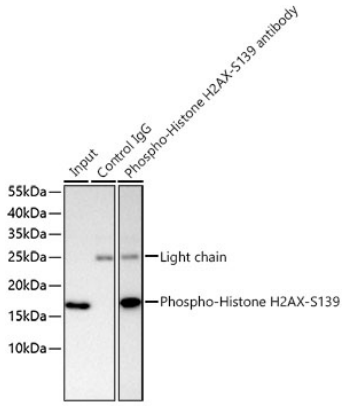
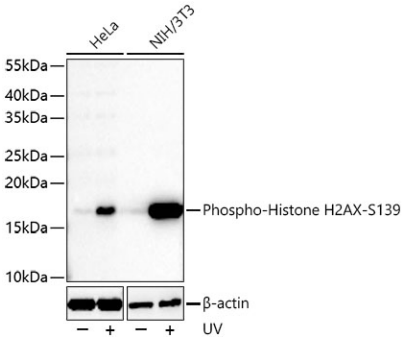
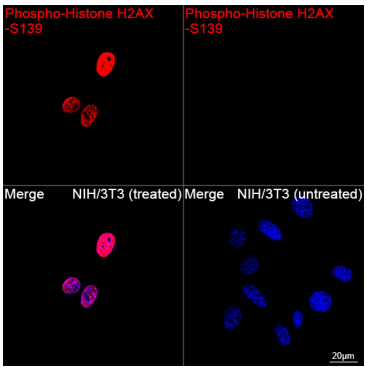
Validation Data



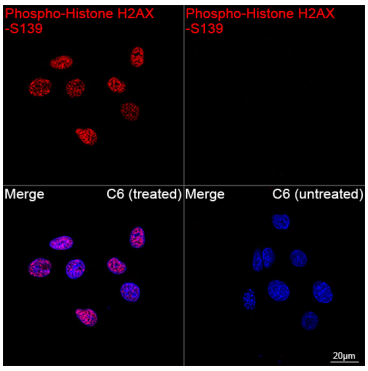
Immunoprecipitation of Phospho-Histone H2AX-S139 from 882 µg extracts of 293T cells treated with UV(60mJ/cm², 2 hours) was performed using 1 µg of Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP) at a dilution of 1:1000.



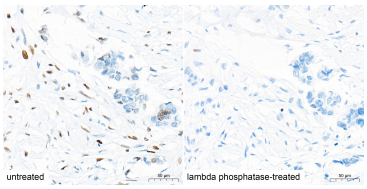
Western blot analysis of various lysates using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP) at 1:5000 dilution incubated overnight at 4℃. HeLa cells were treated with UV (120mJ) at 37°C for 40min, NIH/3T3 cells were treated with UV (120mJ) at 37°C for 40min.
Secondary antibody: HRP-conjugated Goat 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: 60 s.



Confocal imaging of NIH/3T3 cells (treated with UV) and NIH/3T3 cells (untreated) using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP, dilution 1:5000) 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.

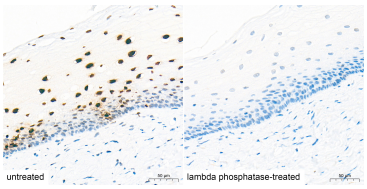


Confocal imaging of C6 cells (treated with UV) and C6 cells (untreated) using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP, dilution 1:5000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

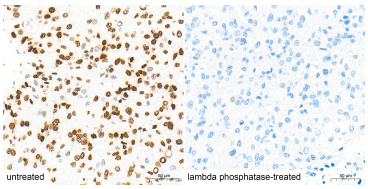


Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

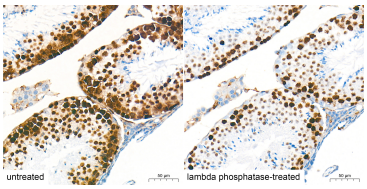
Validation Data



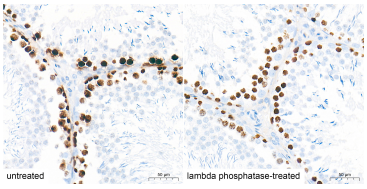
Immunohistochemistry analysis of paraffin-embedded Human cervix tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP) 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 testis tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP) 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 testis tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Histone H2AX-S139 Rabbit pAb (AP0099SP) 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.