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Phospho-Histone H2AX-S139 Rabbit mAb

Catalog No.: AP0687 Recombinant 52 Publications

Basic Information

Observed MW
15kDa

Calculated MW
15kDa

Category
Primary antibody

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

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.

Recommended Dilutions

WB	1:4000 - 1:16000
IHC-P	1:500 - 1:2000
IF/ICC	1:200 - 1:800
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
3014

Swiss Prot
P16104

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

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

Contact

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Product Information

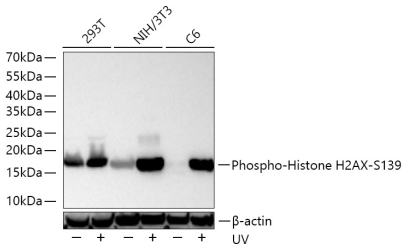
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

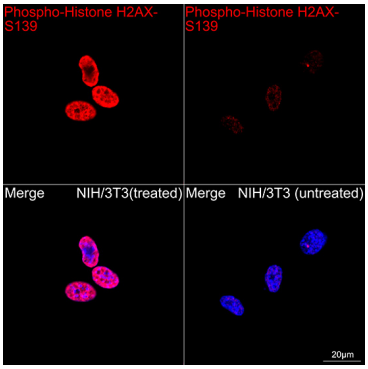
Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data

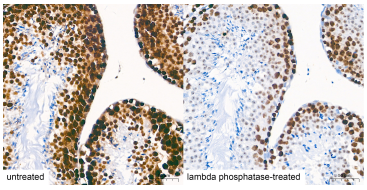


Western blot analysis of various lysates using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at 1:7000 dilution incubated overnight at 4℃. 293T,NIH/3T3 and C6 cells were treated by UV at room temperature for 15-30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.

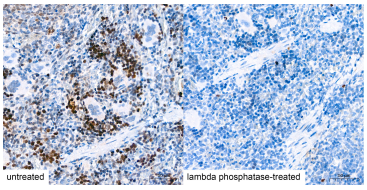
Confocal imaging of 293T cells (treated with UV) and 293T cells (untreated) using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687, dilution 1:5000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells (treated with UV) and NIH/3T3 cells (untreated) using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687, dilution 1:5000) followed by a further incubation with Cy3 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 Mouse testis tissue using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Phospho-Histone H2AX-S139 Rabbit mAb (AP0687) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.