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# Histone H2AX Rabbit pAb

**Catalog No.: A11463** **7 Publications**

## Basic Information

**Observed MW**
15kDa

**Calculated MW**
15kDa

**Category**
Primary antibody

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

**Cross-Reactivity**
Human, Mouse, Rat, Other (Wide Range Predicted)

## 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** | 1:500 - 1:1000 |
| **IHC-P** | 1:50 - 1:200 |
| **IF/ICC** | 1:50 - 1:200 |
| **IP** | 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells |
| **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; Histone H2AX

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

**Storage**
Store at -20℃

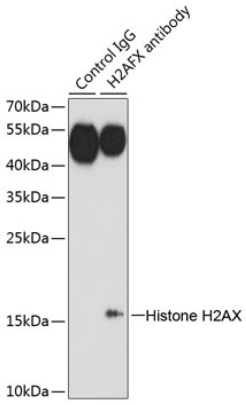
## Contact


400-999-6126

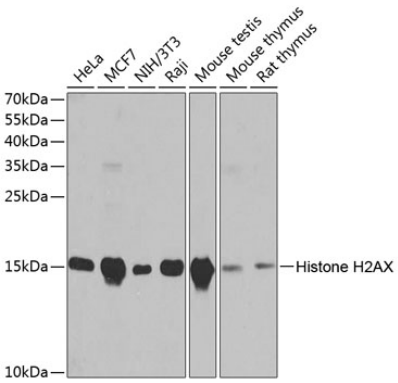
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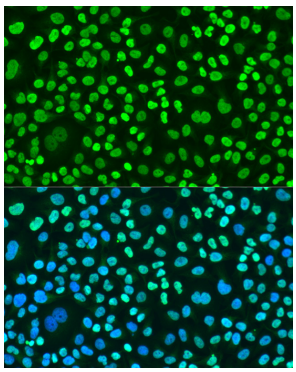
## Validation Data



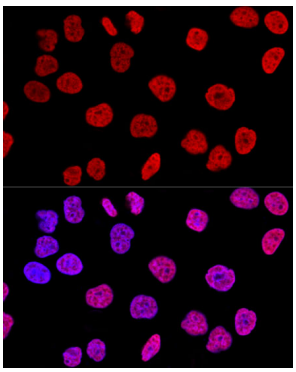

Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg Histone H2AX antibody (A11463). Western blot was performed from the immunoprecipitate using Histone H2AX antibody (A11463) at a dilution of 1:1000.



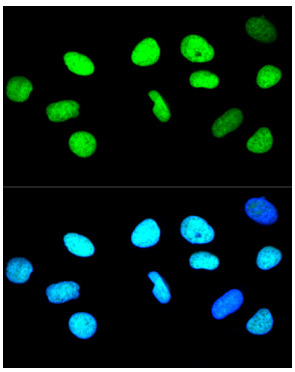

Western blot analysis of various lysates using Histone H2AX Rabbit pAb (A11463) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 15s.



Immunofluorescence analysis of U2OS cells using Histone H2AX Rabbit pAb (A11463) at dilution of 100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

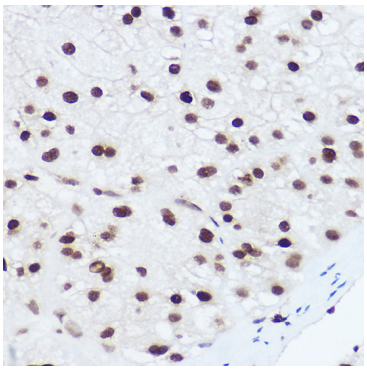


Confocal immunofluorescence analysis of HeLa cells using Histone H2AX Rabbit pAb (A11463) at dilution of 1:400. Blue: DAPI for nuclear staining.

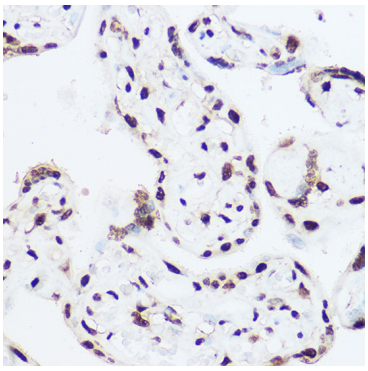


Confocal immunofluorescence analysis of U-2 OS cells using Histone H2AX Rabbit pAb (A11463) at dilution of 1:400. Blue: DAPI for nuclear staining.

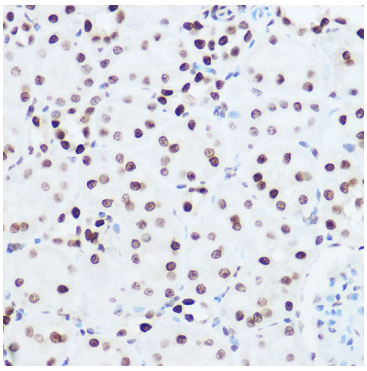
## Validation Data



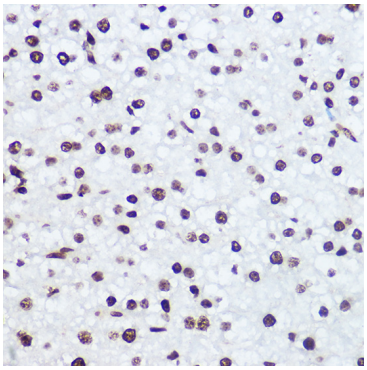
Immunohistochemistry analysis of paraffin-embedded Human liver cancer using Histone H2AX Rabbit pAb (A11463) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human placenta using Histone H2AX Rabbit pAb (A11463) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using Histone H2AX Rabbit pAb (A11463) at dilution of 1:100 (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 liver using Histone H2AX Rabbit pAb (A11463) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.