

# Histone H2A.X Antibody

Rabbit mAb

Catalog # AP90312

## Product Information

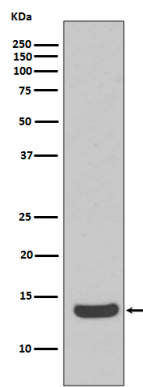
<b>Application</b>	WB, IHC, IF, ICC, IP, IHF
<b>Primary Accession</b>	<a href="#">P16104</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	H2A.X; H2AFX; H2a/x; HIST5-2AX; Histone H2A.X; AW228881; H2A histone family member X; Histone 2A;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	15145

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Histone H2A.X
<b>Description</b>	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	H2AX ( <a href="#">HGNC:4739</a> )
<b>Function</b>	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post- translational modifications of histones, also called histone code, and nucleosome remodeling. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation.
<b>Cellular Location</b>	Nucleus. Chromosome



Western blot analysis of Histone H2A.X expression in Raji cell lysates.

Image not found : 202311/AP90312-IHC.jpg	Immunohistochemical analysis of paraffin-embedded rat lung, using Histone H2A.X Antibody.
Image not found : 202311/AP90312-IF.jpg	Immunofluorescent analysis of Hela cells, using Histone H2A.X Antibody .
Image not found : 202311/AP90312-wb6.jpg	U2-related proteins CHERP and SR140 contribute to colorectal tumorigenesis via alternative splicing regulation. -International Journal of Cancer

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.