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Histone H2A.X Antibody

Rabbit mAb
Catalog # AP90312

Product Information

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

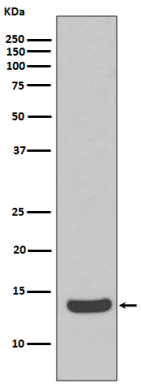
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Histone H2A.X
Description	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.
Storage Condition and Buffer	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

Name	H2AX (HGNC:4739)
Function	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.
Cellular Location	Nucleus. Chromosome

Images



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'.