

**Phospho-Histone H2A.X (S139) Antibody**  
Rabbit mAb  
Catalog # AP91004**Specification**

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**Phospho-Histone H2A.X (S139) Antibody - Product Information**

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

**Phospho-Histone H2A.X (S139) Antibody - Additional Information**

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human Phospho-Histone H2A.X (S139)</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.</b>

**Phospho-Histone H2A.X (S139) Antibody - 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**

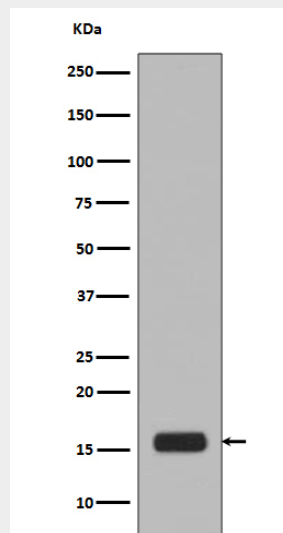
Nucleus. Chromosome

#### **Phospho-Histone H2A.X (S139) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Phospho-Histone H2A.X (S139) Antibody - Images**



Western blot analysis of HistoneH2A.X phosphorylation expression in Jurkat cell lysate treated with etoposide.