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

Specification

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

Application	**WB, IHC, ICC, IP**
Primary Accession	P16104
Reactivity	**Rat**
Clonality	**Monoclonal**
Other Names	
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

Dilution	**WB~~1:1000** **IHC~~1:100~500** **ICC~~N/A** **IP~~N/A**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human Phospho-Histone H2A.X (S139)**
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.**

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.

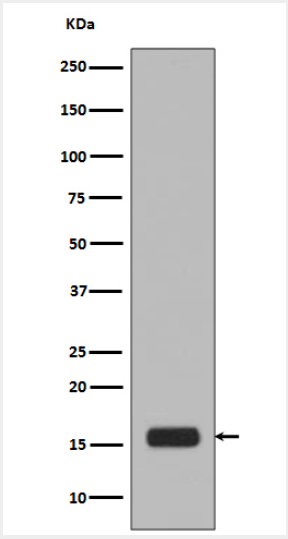
Cellular Location
Nucleus. Chromosome

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 Cytomety
- Cell Culture

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



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