

### Histone H2A.X (phospho Ser139) Polyclonal Antibody

**Catalog # AP67060** 

#### **Specification**

### Histone H2A.X (phospho Ser139) Polyclonal Antibody - Product Information

Application WB, IHC-P Primary Accession P16104

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

# Histone H2A.X (phospho Ser139) Polyclonal Antibody - Additional Information

**Gene ID 3014** 

**Other Names** 

H2AFX; H2AX; Histone H2A.x; H2a/x

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not

yet tested in other applications.

IHC-P~~N/A

**Format** 

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions** 

-20°C

#### Histone H2A.X (phospho Ser139) Polyclonal 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

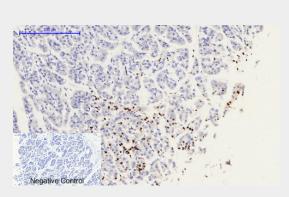


## Histone H2A.X (phospho Ser139) Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

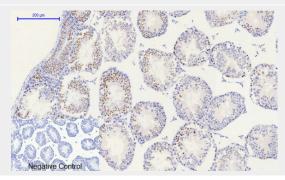
## Histone H2A.X (phospho Ser139) Polyclonal Antibody - Images



Immunohistochemical analysis of paraffin-embedded Human-stomach-cancer tissue. 1,Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

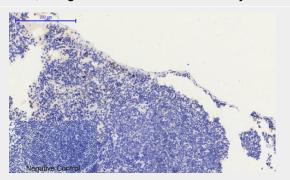


Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1,Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

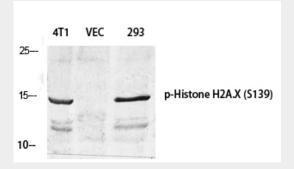




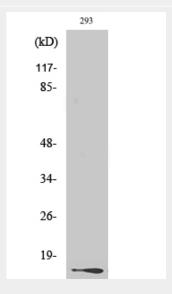
Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1,Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-spleen tissue. 1,Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

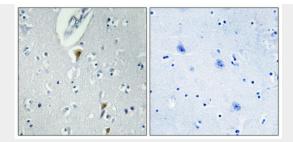


Western Blot analysis of various cells using Phospho-Histone H2A.X (S139) Polyclonal Antibody diluted at 1□500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

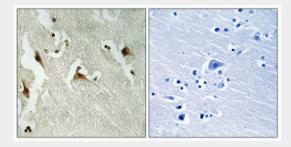


Western Blot analysis of 293 cells using Phospho-Histone H2A.X (S139) Polyclonal Antibody diluted at  $1 \square 500$  cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).





Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.

## Histone H2A.X (phospho Ser139) Polyclonal Antibody - Background

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