

**H2AFX / H2AX Antibody (Ser139)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11769**

**Specification**

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**H2AFX / H2AX Antibody (Ser139) - Product Information**

Application	IF, IHC
Primary Accession	<a href="#">P16104</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15kDa KDa

**H2AFX / H2AX Antibody (Ser139) - Additional Information**

**Gene ID** 3014

**Other Names**

Histone H2AX, H2a/x, Histone H2A.X, H2AFX, H2AX

**Target/Specificity**

Amino acids surrounding Ser 139 of human H2AFX

**Reconstitution & Storage**

+4°C or -20°C, Avoid repeated freezing and thawing.

**Precautions**

H2AFX / H2AX Antibody (Ser139) is for research use only and not for use in diagnostic or therapeutic procedures.

**H2AFX / H2AX Antibody (Ser139) - 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**

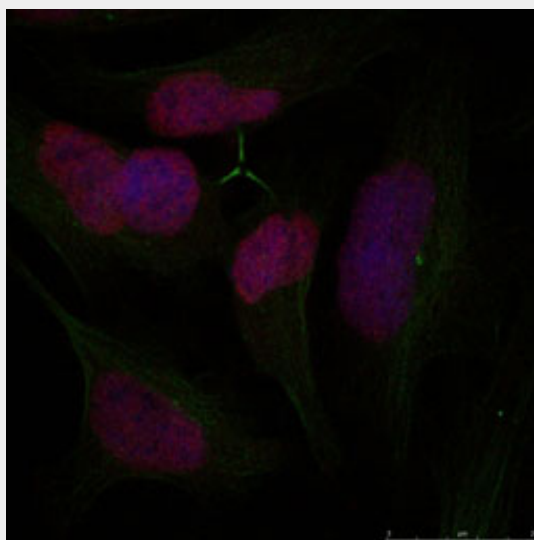
Nucleus. Chromosome

## H2AFX / H2AX Antibody (Ser139) - Protocols

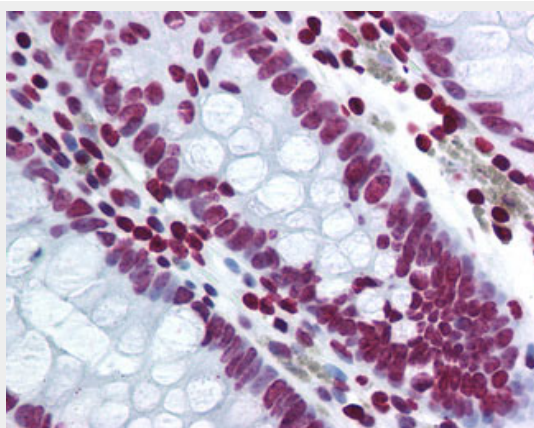
Provided below are standard protocols that you may find useful for product applications.

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

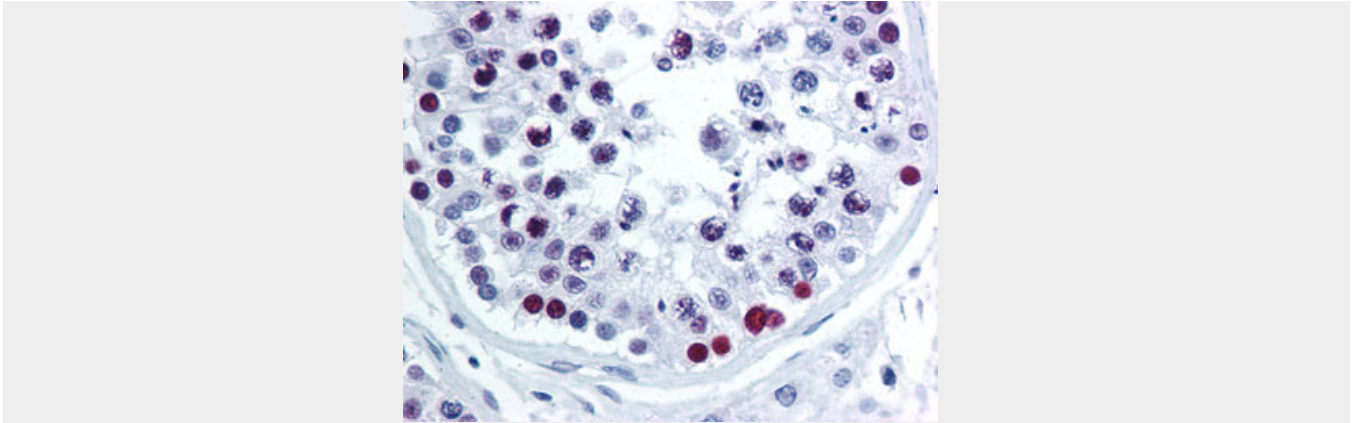
## H2AFX / H2AX Antibody (Ser139) - Images



Immunofluorescence staining of methanol-fixed HeLa cells using Histone H2A.X(Ab-139) antibody.



Anti-H2AX antibody IHC of human colon.



Anti-H2AX antibody IHC of human testis.

### **H2AFX / H2AX Antibody (Ser139) - Background**

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.

### **H2AFX / H2AX Antibody (Ser139) - References**

- Mannironi C.,et al.Nucleic Acids Res. 17:9113-9126(1989).
- Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
- Rogakou E.P.,et al.J. Biol. Chem. 273:5858-5868(1998).
- Rogakou E.P.,et al.J. Cell Biol. 146:905-916(1999).
- Paull T.T.,et al.Curr. Biol. 10:886-895(2000).