

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

H2AFX / H2AX Antibody (Ser139) - Product Information

Application	IF, IHC
Primary Accession	P16104
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

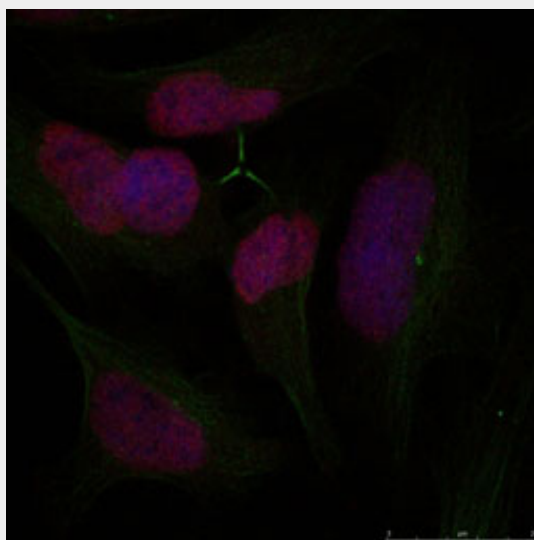
Nucleus. Chromosome

H2AFX / H2AX Antibody (Ser139) - Protocols

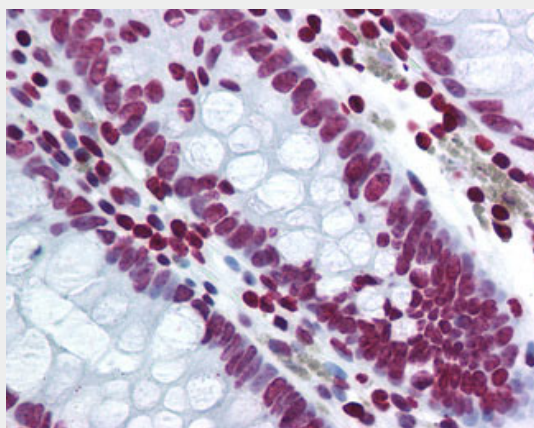
Provided below are standard protocols that you may find useful for product applications.

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

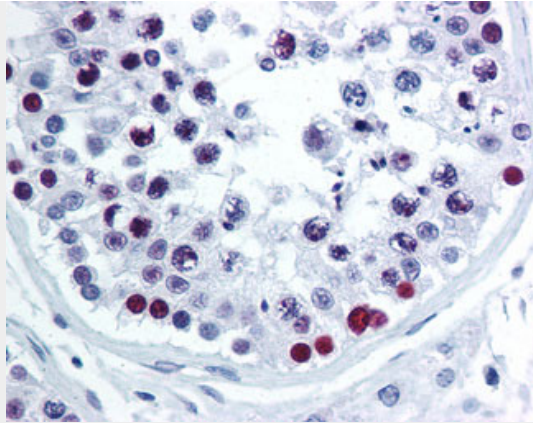
H2AFX / H2AX Antibody (Ser139) - Images



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).