

H2A.XS139p polyclonal antibody

Purified Rabbit Polyclonal Antibody

Catalog # ADN10135

Specification

H2A.XS139p polyclonal antibody - Product Information

Application **E, DB, WB**
Primary Accession [P16104](#)
Reactivity **Human**
Host **Rabbit**
Clonality **Polyclonal**
Calculated MW **15145**

H2A.XS139p polyclonal antibody - Additional Information

Gene ID 3014

Other Names

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

Target/Specificity

H2A.XS139p

Precautions

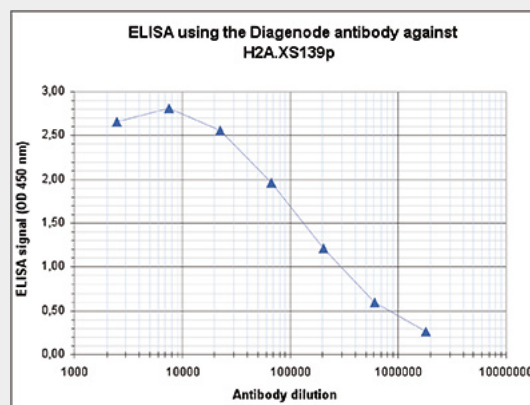
H2A.XS139p polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.

H2A.XS139p polyclonal antibody - Protein Information

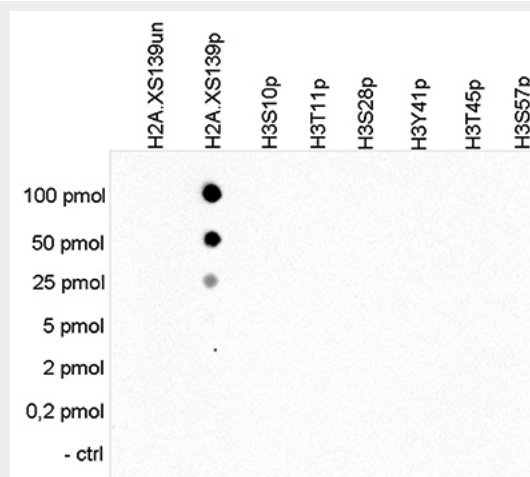
Name H2AX ([HGNC:4739](#))

Function

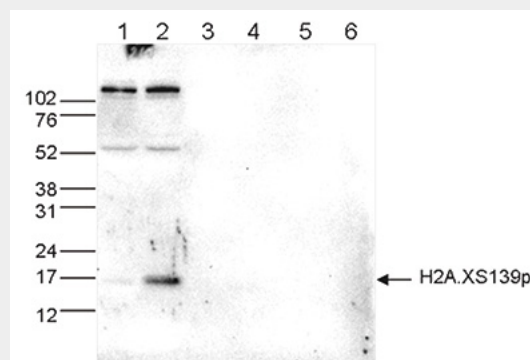
Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication 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



Determination of the antibody titer



Cross reactivity tests using the antibody directed against H2A.XS139p



Western blot analysis using the antibody directed against H2A.XS139p

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

**H2A.XS139p polyclonal 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](#)

**H2A.XS139p polyclonal antibody -
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.

**H2A.XS139p polyclonal antibody -
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).
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