

Rabbit Histone H2A.XS139ph (H2AX) Polyclonal Antibody | anti-H2A.XS139ph antibody

Histone H2A.XS139ph antibody (pAb)(H2AX)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59831	Rabbit	Human, Wide Range Predicted	Western Blot, Immunofluorescence, Immunocytochemistry, Dot Blot

PRODUCT SYNONYMS

Histone H2A.XS139ph (H2AX); Polyclonal Antibody; Histone H2A.XS139ph antibody (pAb)(H2AX); Histone H2A.X phosphoserine 139; anti-H2A.XS139ph antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Protein A Chromatography
Form/Format	PBS containing 30% glycerol, 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H2A.XS139ph antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), DB (Dot Blot)
Conjugation	Phosphorylated
Immunogen	This Histone H2AX phospho Ser139 antibody was raised against a peptide including phosphoserine 139 of histone H2AX.
Abs Residue	Ser
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



WB (Western Blot)

Histone H2AX phospho Ser139 antibody tested by Western blot. Western blot: Nuclear extract of U2OS cells (20 ug per lane) probed with Histone H2AX phospho Ser139 polyclonal antibody (1:500 dilution). Lane 1: untreated cells Lane 2: cells treated with camptothecin



IF (Immunofluorescence)

Histone H2AX phospho Ser139 antibody tested by immunofluorescence. Etoposide-treated HeLa cells stained with (1:500 dilution, red) and counterstained with DAPI (blue).



IF (Immunofluorescence)

Histone H2AX phospho Ser139 antibody tested by immunofluorescence. HeLa cells stained with Histone H2AX phospho Ser139 antibody (1:500 dilution) using MAX Stain Immunofluorescence Tools. The HeLa cells were blocked with MAXblock Blocking Medium and stained with Histone H2AX phospho Ser139 antibody. Panel A: Untreated HeLa cells. Panel B: Cells fixed and stained 90 minutes after 3 Gy ionizing radiation treatment. Top images: Cells were stained with DAPI. Middle images: Same cells stained with Histone H2AX phospho Ser139 antibody. Bottom images: Merge of both images above. Images were made using Zeiss Axiovision with equivalent acquisition settings for direct comparison. Note Panel B-middle image, which shows intense nuclear clustering of ionizing radiation-induced phosphorylation of Ser139 of H2AX. In contrast, Panel A-middle image shows no detectable phosphorylated H2AX.

ADDITIONAL INFORMATION

Related Product Information for anti-H2A.XS139ph antibody	Short Description: Our Histone H2A.XS139ph antibody (pAb)(H2AX) was raised in a Rabbit host. It has been validated for use in Dot blot, Immunocytochemistry, Immunofluorescence and Western blot; it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types. Background: Histone H2AX phospho Ser139 (H2AX, H2A histone family member X) replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries that require DNA as a template. Histones thereby play a central role in transcriptional regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called the histone code, and nucleosome remodeling. Histone H2AX is 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.
Product Categories/Family for anti-H2A.XS139ph antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504253
NCBI GeneID	3014
NCBI Accession #	NP_002096 ; AB_2793161
NCBI GenBank Nucleotide #	NM_002105
UniProt Accession #	P16104 ; Q4ZGJ7 ; Q6IAS5
Molecular Weight	15,145 Da
NCBI Official Full Name	histone H2AX
NCBI Official Synonym Full Names	H2A histone family, member X
NCBI Official Symbol	H2AFX
NCBI Official Synonym Symbols	H2AX; H2A.X; H2A/X
NCBI Protein Information	histone H2AX; H2AX histone; histone H2A.x
UniProt Protein Name	Histone H2A.x
UniProt Gene Name	H2AFX
UniProt Synonym Gene Names	H2AX; H2a/x
UniProt Entry Name	H2AX_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/histone-h2axs139ph-h2ax-antibody-western-blot-immunofluorescence-immunocytochemistry-dot-blot-elisa/59831>