

Rabbit Histone H2A.XY142ph Polyclonal Antibody | anti-H2A.XY142ph antibody

Histone H2A.XY142ph antibody (pAb)

CATALOG # AAA60056	HOST Rabbit	REACTIVITY Human, Wide Range Predicted	APPLICATIONS Western Blot, Dot Blot
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PRODUCT SYNONYMS

Histone H2A.XY142ph; Polyclonal Antibody; Histone H2A.XY142ph antibody (pAb); anti-H2A.XY142ph antibody

PRODUCT SPECIFICATIONS

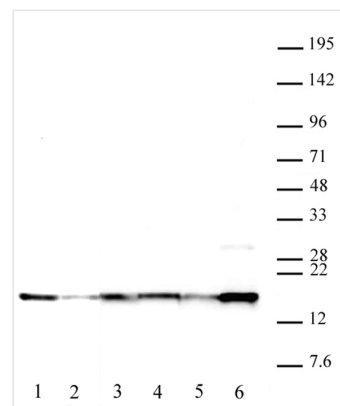
Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Form/Format	Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-H2A.XY142ph antibody	WB (Western Blot), DB (Dot Blot)
Conjugation	Phosphorylated
Immunogen	This antibody was raised against a peptide containing phospho-tyrosine 142 of human histone H2A.X.
Abs Residue	Tyr
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



DB (Dot Blot)

Histone H2A.XY142ph antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H2A.XY142ph antibody for phospho Tyr142 of Histone H2A.X. Peptides corresponding to the immunogen and the unmodified version of the immunogen were spotted onto PVDF and probed with the antibody at 1:100,000. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: Phospho-Tyr142 peptide. Lane 2: Unmodified Tyr142 peptide. Lane 3: Phospho-Ser139 peptide. Lane 4: Unmodified Ser139 peptide.



WB (Western Blot)

Histone H2A.XY142ph antibody (pAb) tested by Western blot. 25 ug of U2OS nuclear extract untreated (lanes 1, 3, 5) or treated with 5 uM camptothecin for 8 hours (lanes 2, 4, 6) probed with the indicated antibody. Lanes 1 & 2: H2A.XY142ph antibody (pAb) at a 1:500 dilution (expected decrease with treatment). Lanes 3 & 4: H2A.X antibody (pAb) at a 1:50,000 dilution (no change expected). Lanes 5 & 6: H2A.XS139ph antibody (pAb) at a 1:20,000 dilution (increase expected with treatment).

ADDITIONAL INFORMATION

Related Product Information for anti-H2A.XY142ph antibody	Short Description: Our Histone H2A.XY142ph antibody (pAb) was raised in a Rabbit host. It has been validated for use in Dot blot 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 H2A.XY142ph (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. Tyrosine phosphorylation at position 142 on Histone H2A.X is constitutive and is mediated by BAZ1B/WSTF. This mark distinguishes between apoptotic and DNA repair responses to genotoxic stress.
Product Categories/Family for anti-H2A.XY142ph antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504253
NCBI GeneID	3014
NCBI Accession #	NP_002096; AB_2793704
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://www.aaabiotech.com/polyclonal/histone-h2axy142ph-antibody-western-blot-dot-blot-elisa/60056>