

Rabbit anti-Human Histone H2A.X Polyclonal Antibody | anti-H2AFX antibody

Histone H2A.X (Phospho-Ser139) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA304477	Rabbit	Human	Immunofluorescence, Western Blot

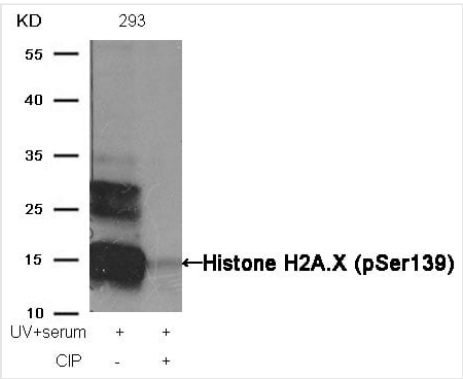
PRODUCT SYNONYMS

Histone H2A.X; Polyclonal Antibody; Histone H2A.X (Phospho-Ser139) Antibody; H2A.X; H2AFX; H2a/x; HIST5-2AX; anti-H2AFX antibody

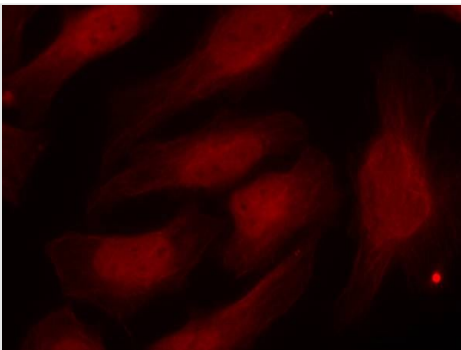
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of Histone H2A.X only when phosphorylated at serine 139.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	143
Applicable Applications for anti-H2AFX antibody	IF (Immunofluorescence), WB (Western Blot)
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 139 (Q-A-S(p)-Q-E) derived from Human Histone H2A.X.
Modification	Phospho-Ser139
Target Name	Histone H2A.X
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.

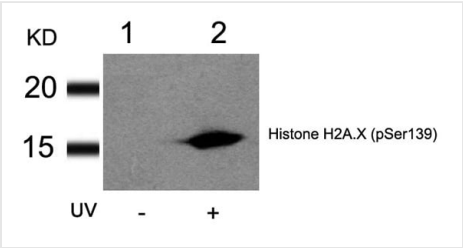
IMAGES



WB (Western Blot)
Western blot analysis of extracts from 293 cells, treated with UV+serum or calf intestinal phosphatase (CIP), using Histone H2A.X (Phospho-Ser139) Antibody.



IF (Immunofluorescence)
Immunofluorescence staining of methanol-fixed HeLa cells using Histone H2A.X(Phospho-Ser139) Antibody.



WB (Western Blot)
Western blot analysis of extracts from HT29 cells untreated(lane 1) or treated with UV(lane 2) using Histone H2A.X(Phospho-Ser139) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-H2AFX antibody	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.
Product Categories/Family for anti-H2AFX antibody	Phospho-specific Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504253
NCBI GeneID	3014
NCBI Accession #	NP_002096.1
NCBI GenBank Nucleotide #	NM_002105.2
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
UniProt Protein Name	Histone H2AX
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-h2ax-antibody-immunofluorescence-western-blot-elisa/304477>