

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

Histone H2A.XS139ph antibody (rAb)(H2AX)(Clone RM224)

CATALOG # AAA60289	HOST Mouse	REACTIVITY Human, Wide Range Predicted	APPLICATIONS Western Blot, Immunocytochemistry
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PRODUCT SYNONYMS

Histone H2A.XS139ph (H2AX); Histone H2A.XS139ph antibody (rAb)(H2AX)(Clone RM224); anti-H2A.XS139ph antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Wide Range Predicted
Isotype	IgG
Clone Number	RM224
Purity/Purification	Protein A Chromatography
Form/Format	PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H2A.XS139ph antibody	WB (Western Blot), ICC (Immunocytochemistry)
Antibody Type	Recombinant Antibody
Conjugation	Phosphorylated
Immunogen	A phospho-peptide corresponding to Phospho-Histone H2AX (Ser139).
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



IF (Immunofluorescence)

Immunofluorescence stain of Histone H2A.XS139ph antibody (rAb).HeLa cells were stained using Histone H2A.XS139ph antibody (Clone RM224) at 2 ug/ml (red). Actin filaments have been labeled with fluorescein phalloidin (green).



WB (Western Blot)

Western blot of Histone H2A.XS139ph antibody (rAb).Acid extracts from HeLa cells treated or non-treated with UV were probed using Histone H2A.XS139ph antibody (Clone RM224) at 0.5 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-H2A.XS139ph antibody	Short Description: Our Histone H2A.XS139ph antibody (rAb)(H2AX)(Clone RM224) was raised in a Rabbit host. It has been validated for use in Immunocytochemistry 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. RM224 reacts to Histone H2A.X only when phosphorylated at serine 139. No cross reactivity with other phosphorylated histones.
Product Categories/Family for anti-H2A.XS139ph antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504253
NCBI GeneID	3014
NCBI Accession #	NP_002096
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/histone-h2a-xs139ph-h2ax/60289>