

Rabbit Histone H2A.X (Ser139) Monoclonal Antibody | anti-H2A.X antibody

Histone H2A.X, phosphorylated (Ser139)

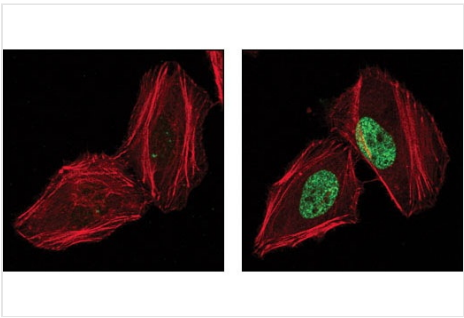
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA26905	Rabbit	Human, Monkey, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

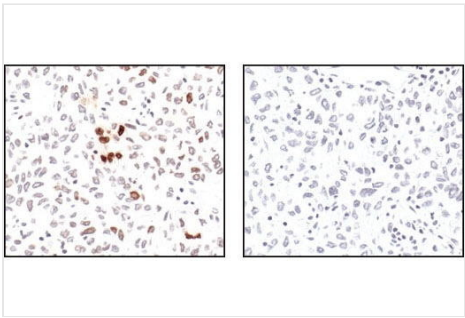
Histone H2A.X (Ser139); Monoclonal Antibody; Histone H2A.X; phosphorylated (Ser139); phosphorylated; anti-H2A.X antibody

PRODUCT SPECIFICATIONS

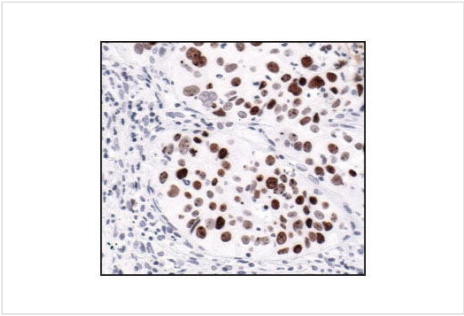
Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG
Clone Number	20000
Specificity	Recognizes endogenous levels of human H2A.X only when phosphorylated at serine 139. Species Crossreactivity: mouse, rat and monkey
Purity/Purification	Purified
Form/Format	Supplied as a liquid in 10mM sodium HEPES, pH 7.5, 150mM sodium chloride, 0.1mg/ml BSA, 50% glycerol.
Applicable Applications for anti-H2A.X antibody	FCM/FACS (Flow Cytometry), IC (Immunochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	immunofluorescence (IF): 1:400 Flow Cytometry: 1:400 Western Blot: 1:1000 Immunohistochemistry: 1:480. Use citrate as unmasking buffer.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Ser139 of human H2A.X.
Modification	Phosphorylated
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



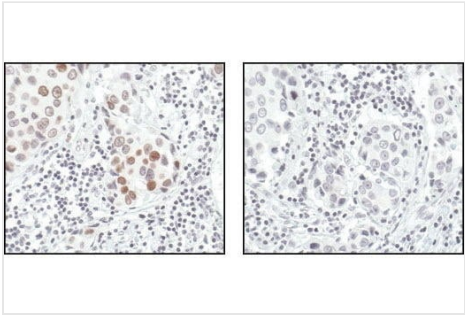
IF (Immunofluorescence)
Confocal immunofluorescent analysis of HeLa cells, untreated (left) or UV-treated (right), using Phospho-Histone H2A.X (Ser139) (20E3) Rabbit mAb (green). Actin filaments have been labeled with DY-554 phalloidin (red).



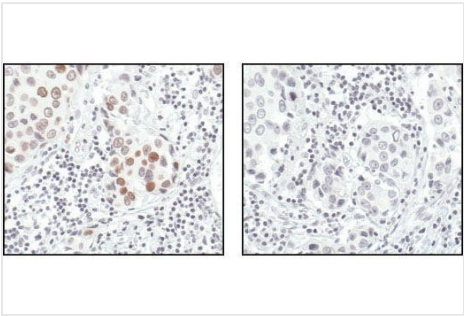
IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human lung carcinoma untreated (left) or lambda-phosphatase-treated (right), using Phospho-Histone H2A.X (Ser139) (20E3) Rabbit mAb.



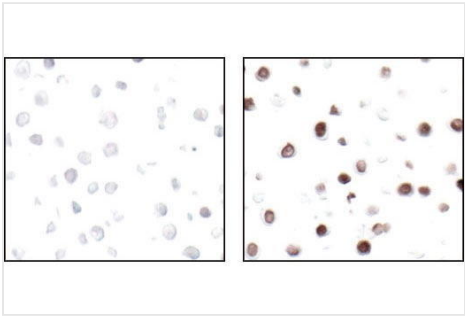
IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human lung carcinoma, AAA26905, showing nuclear localization.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using AAA26905.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human breast carcinoma, using AAA26905 in the presence of control peptide (left) or Phospho-Histone H2A.X (Ser139) Blocking Peptide (right).



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded HT-29 cells untreated (left) or UV-treated (right), using AAA26905.

ADDITIONAL INFORMATION

Related Product Information for anti-H2A.X antibody	Histone H2A.X is a variant histone that represents approximately 10% of the total H2A histone proteins in normal human fibroblasts. H2A.X is required for checkpoint-mediated cell cycle arrest and DNA repair following double-stranded DNA breaks. DNA damage, caused by ionizing radiation, UV-light, or radiomimetic agents, results in rapid phosphorylation of H2A.X at Ser139 by PI3K-like kinases, including ATM, ATR, and DNA-PK. Within minutes following DNA damage, H2A.X is phosphorylated at Ser139 at sites of DNA damage. This very early event in the DNA-damage response is required for recruitment of a multitude of DNA-damage response proteins, including MDC1, NBS1, RAD50, MRE11, 53BP1, and BRCA1.
Product Categories/Family for anti-H2A.X antibody	Antibodies-Primary; Antibodies-Histones

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 H2A.x
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 H2A.x; H2AX histone
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/monoclonal/histone-h2ax-ser139-antibody-clone-20000-flow-cytometry-immunochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/26905>