Mouse anti-Human, Mouse Histone H2A.X Monoclonal Antibody | anti-H2AFX antibody

Phospho-Histone H2A.X (Ser139) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290456	**Mouse**	**Human, Mouse**	**Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Histone H2A.X; Monoclonal Antibody; Phospho-Histone H2A.X (Ser139) Antibody; Purified Mouse Monoclonal Antibody (Mab); H2A histone family; member X; H2A.X; H2a/x; H2AFX; H2AX; H2AX histone; H2AX_HUMAN; Histone H2AX; anti-H2AFX antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Form/Format	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.03% Proclin300 and 50% glycerol.
Sequence Length	143
Applicable Applications for anti-H2AFX antibody	ICC (Immunocytochemistry), WB (Western Blot)
Antigen Source	Human
Antigen Type	Recombinant Protein
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

ICC (Immunocytochemistry)
Immunofluorescent analysis of Phosphorylation of H2A.X at Serine 139 in 3T3 or Hydroxyurea-treated 3T3 cells using Phospho-Histone H2A.X (Ser139) mouse mAb (1:400).

WB (Western Blot)
Western blot detection of Phosphorylation of H2A.X at Serine 139 in 3T3 or Hydroxyurea-treated 3T3 cell lysates using Phospho-Histone H2A.X (Ser139) mouse mAb (1:2000 diluted).Predicted band size:15KDa.Observed band size:15KDa.

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.
References	Manniron C.,et al.Nucleic Acids Res. 17:9113-9126(1989). Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases. Rogakou E.P.,et al.J. Biol. Chem. 273:5858-5868(1998). Rogakou E.P.,et al.J. Cell Biol. 146:905-916(1999). Paull T.T.,et al.Curr. Biol. 10:886-895(2000).

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	15145
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/monoclonal/histone-h2ax-antibody-immunocytochemistry-western-blot-elisa/290456