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

Phospho-Histone H2A.X (Ser139) Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA290507** | **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

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|---|---|
| **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

**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

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| **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

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|---|---|
| **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/290507