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H2AFX Antibody (N-term)
Mouse Monoclonal Antibody (Mab)
Catalog # AM2202b

Specification

H2AFX Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P16104
Other Accession	P27661, Q7ZUY3
Reactivity	**Human**
Predicted	**Zebrafish, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**15145**
Antigen Region	**1-30**

H2AFX Antibody (N-term) - Additional Information

Gene ID 3014

Other Names
Histone H2AX, H2a/x, Histone H2AX, H2AFX, H2AX

Target/Specificity
This H2AFX antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human H2AFX.

Dilution
WB~~1:1000
IHC-P~~1:25

Format
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
H2AFX Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

H2AFX Antibody (N-term) - Protein Information

Name H2AX (HGNC:4739)

Function 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.

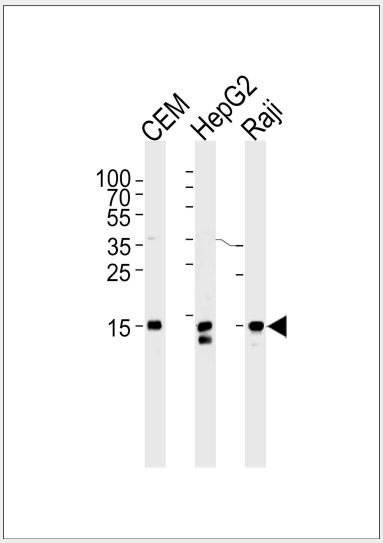
Cellular Location
Nucleus. Chromosome

H2AFX Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

H2AFX Antibody (N-term) - Images



H2AFX Antibody (N-term) (Cat. #AM2202b) western blot analysis in CEM,HepG2,Raji cell line lysates (35µg/lane).This demonstrates the H2AFX antibody detected the H2AFX protein (arrow).

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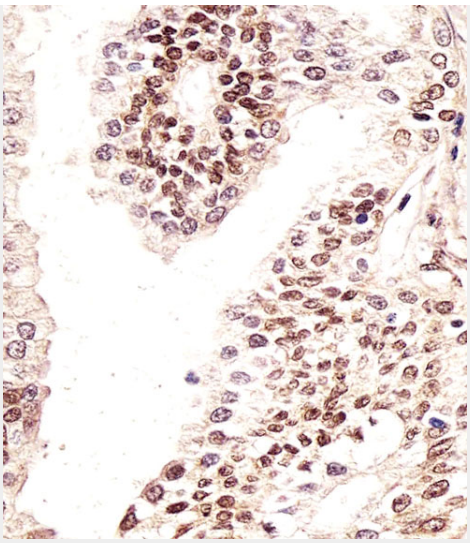

Immunohistochemical analysis of paraffin-embedded H. prostate section using H2AFX Antibody (N-term)(Cat#AM2202b). AM2202b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

H2AFX Antibody (N-term) - Background

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.

H2AFX Antibody (N-term) - References

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Park E.-J., et al. Nucleic Acids Res. 31:6819-6827(2003).
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Lukas C., et al. EMBO J. 23:2674-2683(2004).
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