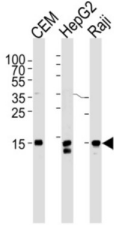


## Histone H2A.X (H2AFX) Antibody

Catalogue No.: abx034840



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.

<b>Target:</b>	Histone H2A.X (H2AFX)
<b>Clonality:</b>	Monoclonal
<b>Reactivity:</b>	Human
<b>Tested Applications:</b>	ELISA, WB, IHC
<b>Host:</b>	Mouse
<b>Recommended dilutions:</b>	WB: 1/1000, IHC-P: 1/25. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.
<b>Conjugation:</b>	Unconjugated
<b>Immunogen:</b>	KLH-conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human H2AFX.
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Form:</b>	Liquid
<b>Purification:</b>	Purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
<b>Storage:</b>	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
<b>UniProt Primary AC:</b>	P16104 ( <a href="#">UniProt</a> , <a href="#">ExpASY</a> )

# Datasheet

Version: 2.0.0  
Revision date: 24 Nov 2024



**NCBI Accession:** NP\_002096.1

**KEGG:** hsa:3014

**String:** [9606.ENSP00000434024](#)

**Molecular Weight:** Calculated MW: 15.1 kDa

**Buffer:** PBS containing 0.09% sodium azide.

**Specificity:** Predicted to react with Mouse and Zebrafish H2AX.

**Note:** This product is for research use only.

For Reference Only