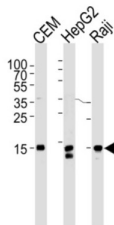


## Histone H2A.X (H2AFX) Antibody

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: 3.0.0

Revision date: 05 Mar 2025



**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. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only