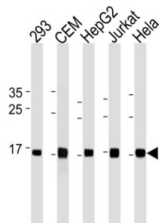


Histone H2A.X (H2AFX) Antibody

Catalogue No.: abx034795



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.

Target: Histone H2A.X (H2AFX)

Clonality: Monoclonal

Reactivity: Human

Tested Applications: ELISA, WB, IHC

Host: Mouse

Recommended dilutions: WB: 1/1000, IHC-P: 1/25 - 1/50. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.

Conjugation: Unconjugated

Immunogen: KLH-conjugated synthetic peptide between 115-143 amino acids from the C-terminal region of human H2AFX.

Isotype: IgG₁

Form: Liquid

Purification: Purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

Storage: Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: P16104 ([UniProt](#), [ExPASy](#))

Datasheet

Version: 4.0.0

Revision date: 02 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.

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