

## Phospho-H2AFX-S139

**Reactivity:**Human Mouse

**Tested applications:**WB

**Recommended Dilution:**WB 1:500 - 1:2000

**Calculated MW:**15kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A phospho specific peptide corresponding to residues surrounding S139 of human H2AFX

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

H2A.X; H2AFX; H2a/x; HIST5-2AX;

**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.

**To place an order, please [Click HERE](#).**

**Catalog #:**AP0245

**Antibody Type:**

Monoclonal Antibody

**Species:**Mouse

**Gene ID:**3014

**Isotype:**IgG

**Swiss Prot:**P16104

**Purity:**Affinity purification

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