

Product Datasheet

Phospho-Histone H2A.X (S139) Antibody



Catalog No: CY6572

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC ICC/IF IP

Information

UniProt ID: P16104

All Names: H2A.X; H2AFX; H2a/x; HIST5-2AX; Histone H2A.X;

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 15 kDa

Application

WB: 1:5000~1:10000

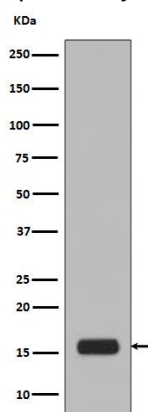
IHC: 1:50~1:200

ICC/IF: 1:50~1:200

IP: 1:30

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.



Western blot analysis of HistoneH2A.X phosphorylation expression in Jurkat cell lysates treated with etoposide.

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