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35-1593: Polyclonal Antibody to Histone H2A.X (Ab-139)

Clonality :	Polyclonal
Application :	WB,IHC,IF
Reactivity :	Human
Gene :	H2AFX
Gene ID :	3014
Uniprot ID :	P16104
Format :	Purified
Alternative Name :	H2A.X, H2AFX, H2a/x, HIST5-2AX
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.137~141 (Q-A-S-Q-E) derived from Human Histone H2A.X.

Description

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

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 15kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

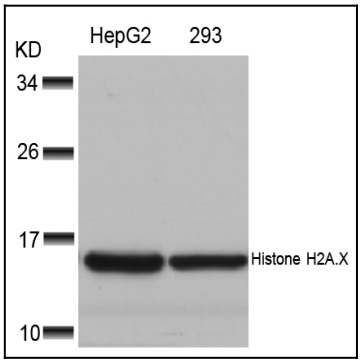

Figure 1: Western blot analysis of extracts from HepG2 and 293 cells using Histone H2A.X(Ab-139) Antibody 35-1593 .

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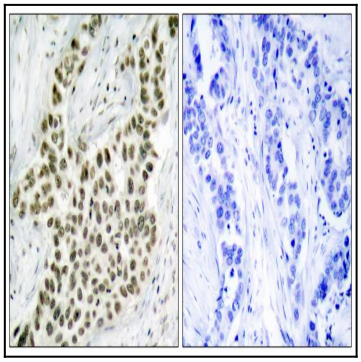

Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Histone H2A.X(Ab-139) Antibody 35-1593 (left) or the same antibody preincubated with blocking peptide(right).

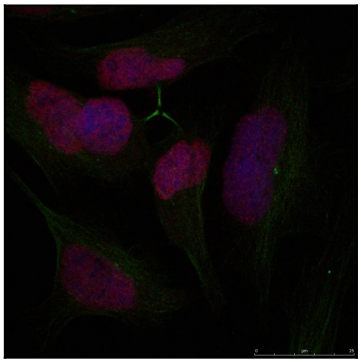

Figure 3: Immunofluorescence staining of methanol-fixed Hela cells using Histone H2A.X(Ab-139) Antibody 35-1593 .