

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

35-1247: Polyclonal Antibody to Histone H2A.X (Phospho-Ser139)

Clonality: Polyclonal
Application: WB,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 phosphorylation site of serine 139 (Q-A-S(p)-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. Yaneva M, et al. (2005) Nucleic Acids Res. 33(16): 5320-5330. Tsukuda T, et al.(2006) Nature. Author manuscript; available in PMC 2006 March 6.

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, Immunofluorescence: 1:100~1:200

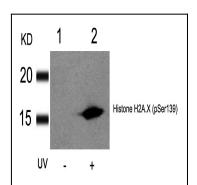


Figure 1: Western blot analysis of extracts from HT29 cells untreated(lane 1) or treated with UV(lane 2) using Histone H2A.X(Phospho-Ser139) Antibody 35-1247 .



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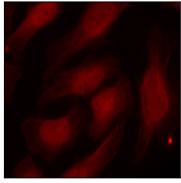


Figure 2: Immunofluorescence staining of methanol-fixed Hela cells using Histone H2A.X(Phospho-Ser139) Antibody 35-1247.

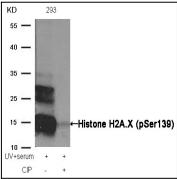


Figure 3: Western blot analysis of extracts from 293 cells, treated with UV+serum or calf intestinal phosphatase (CIP), using Histone H2A.X (Phospho-Ser139) Antibody 35-1247.