Phospho-H2AFX (S139) Antibody

PACO56693

Product Information

Size:

50ul

Reactivity:

Human

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IF, ChIP

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:50-1:500, IF:1:1-1:10

Protein 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.

Gene ID:

H2AFX

Uniprot

P16104

Synonyms:

Histone H2AX (H2a/x) (Histone H2A. X), H2AFX, H2AX

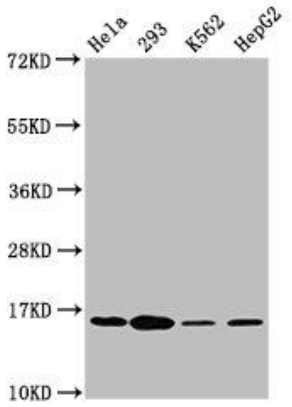
Immunogen:

Peptide sequence around site of Phospho-Ser (139) derived from Human Histone H2AX.

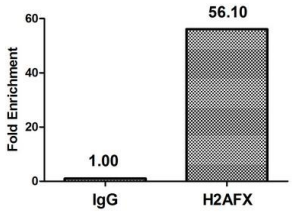
Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, pH 7.4

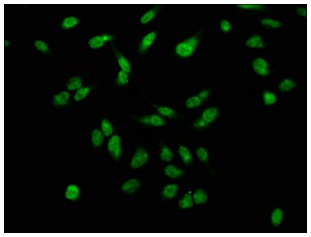
Product Images



Western Blot. Positive WB detected in: Hela whole cell lysate, 293 whole cell lysate, K562 whole cell lysate, HepG2 whole cell lysate. All lanes: H2AFX antibody at 1.8µg/ml. Secondary. Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 16 kDa. Observed band size: 16 kDa.



Chromatin Immunoprecipitation Hela (4*10^6) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-H2AFX (PACO56693) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the beta -Globin promoter.



Immunofluorescence staining of Hela cells with PACO56693 at 1:2.5, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).