

Datasheet for ABIN7139615
anti-H2AFX antibody (pSer139)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µL
Target:	H2AFX
Binding Specificity:	pSer139
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This H2AFX antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Peptide sequence around site of Phospho-Ser (139) derived from Human Histone H2AX
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	H2AFX
Alternative Name:	H2AFX (H2AFX Products)
Background:	Background: Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility

Target Details

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. Aliases: H2A histone family member X antibody, H2A histone family member X antibody, H2A.FX antibody, H2A.X antibody, H2a/x antibody, H2AFX antibody, H2AX antibody, H2AX_HUMAN antibody, Histone H2A.X antibody

UniProt: [P16104](#)

Pathways: [Telomere Maintenance](#), [DNA Damage Repair](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

Application Details

Application Notes: Recommended dilution: WB:1:50-1:500, IF:1:1-1:10,

Restrictions: For Research Use only

Handling

Format: Liquid

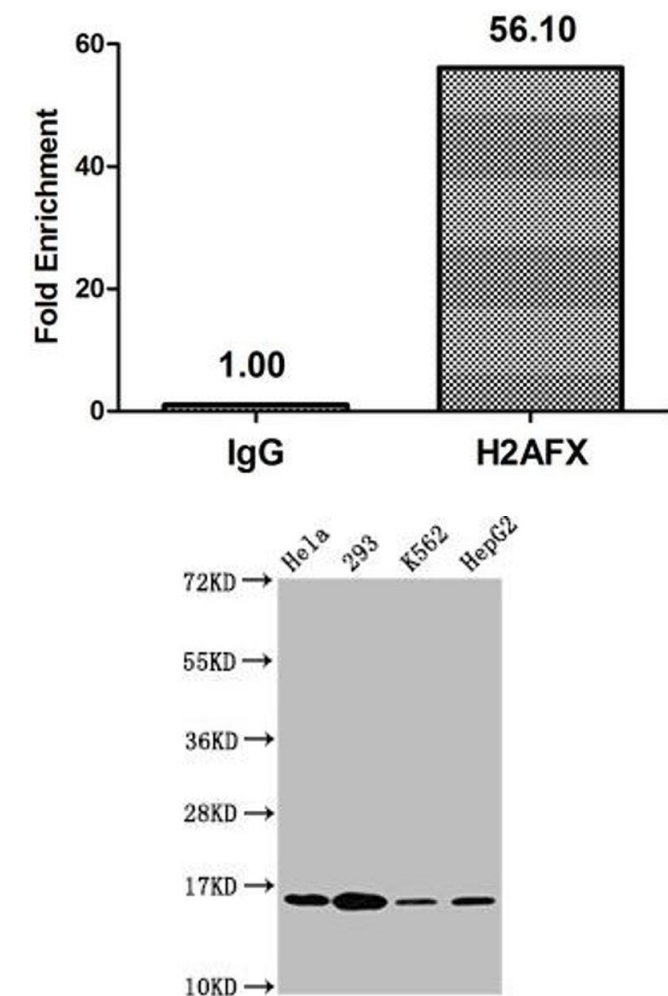
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. Chromatin Immunoprecipitation HeLa (4×10^6) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5 μ g anti-H2AFX (ABIN7139615) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β -Globin promoter.

Western Blotting

Image 2. 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 1.8 μ g/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 16 kDa Observed band size: 16 kDa

Immunofluorescence

Image 3. Immunofluorescence staining of HeLa cells with ABIN7139615 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-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

