

Datasheet for ABIN7138424
anti-H2AFX antibody (pSer139)



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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)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of serine 139 (Q-A-S(p)-Q-E) derived from Human Histone H2A.X.
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

Target Details

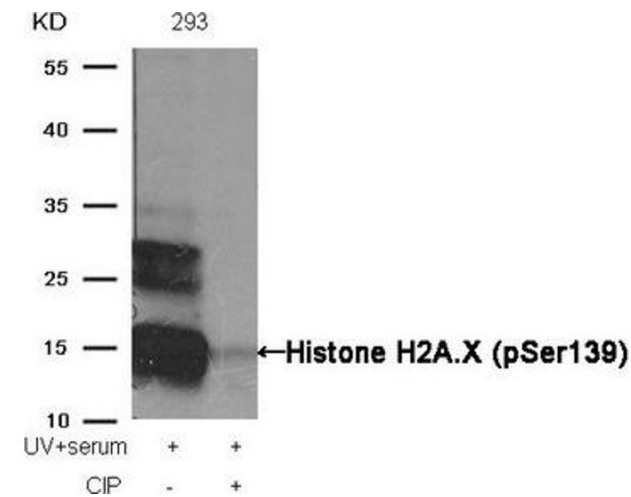
Target:	H2AFX
Alternative Name:	H2AFX (H2AFX Products)

Target Details

Background:	<p>Background:</p> <p>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.</p> <p>Yaneva M, et al. (2005) Nucleic Acids Res. 33(16): 5320-5330.</p> <p>Tsukuda T, et al.(2006) Nature. Author manuscript, available in PMC 2006 March 6.</p> <p>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</p>
UniProt:	P16104
Pathways:	Telomere Maintenance , DNA Damage Repair , Positive Regulation of Response to DNA Damage Stimulus

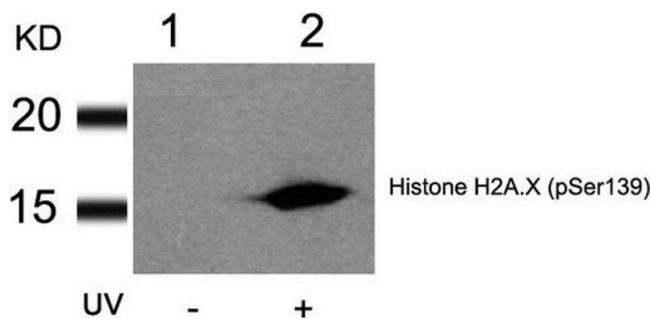
Application Details

Application Notes:	WB:1:500-1:1000, IF:1:100-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: 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.



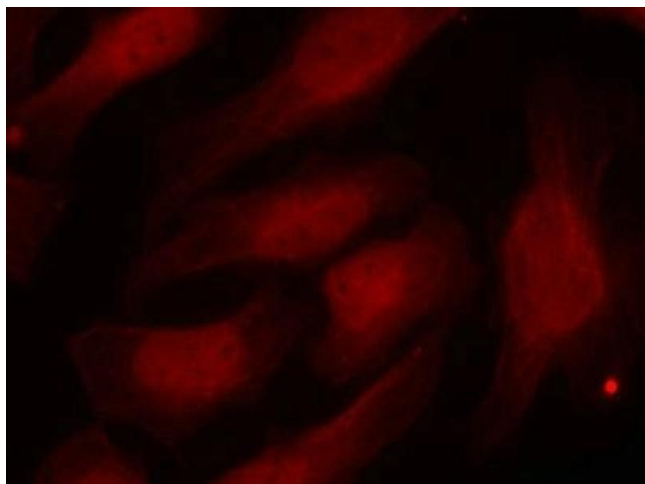
Western Blotting

Image 1. Western blot analysis of extracts from 293 cells, treated with UV+serum or calf intestinal phosphatase (CIP), using Histone H2A.X (Phospho-Ser139) Antibody.



Western Blotting

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



Immunofluorescence

Image 3. Immunofluorescence staining of methanol-fixed Hela cells using Histone H2A.X(Phospho-Ser139) Antibody.