

Datasheet for ABIN7139642

**anti-H2AFX antibody**

## 5 Images

[Go to Product page](#)

## Overview

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

## Product Details

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

## Target Details

Target:	H2AFX
Alternative Name:	H2AFX ( <a href="#">H2AFX Products</a> )
Background:	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

## Target Details

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, IHC:1:20-1:200, IF:1:1-1:10,

Restrictions: For Research Use only

## Handling

Format: Liquid

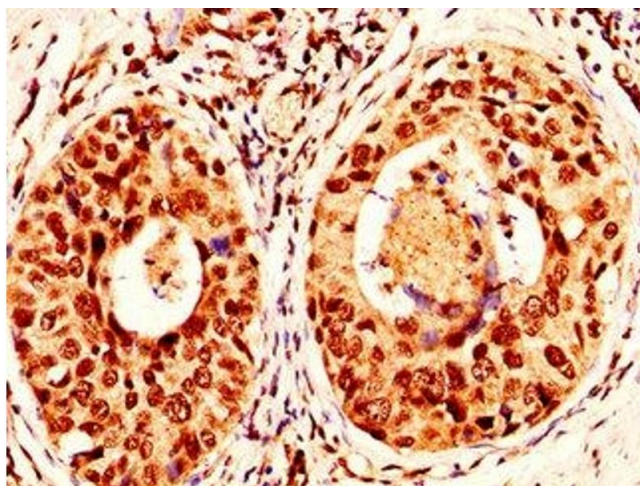
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

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

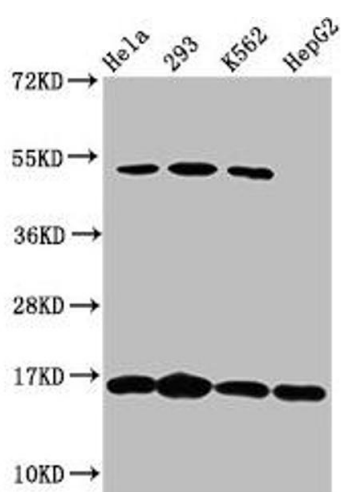
Storage: -20 °C,-80 °C

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



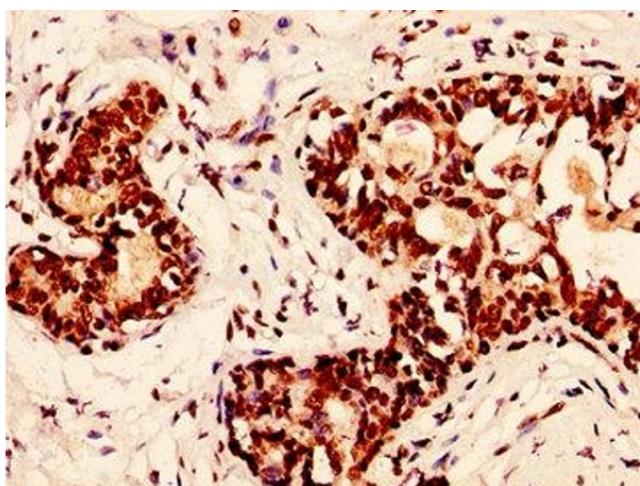
### Immunohistochemistry

**Image 1.** IHC image of nphHU diluted at 1:50 and staining in paraffin-embedded human cervical cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



### 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 1.64 µg/mL. Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 16 kDa. Observed band size: 16 kDa.



### Immunohistochemistry

**Image 3.** IHC image of nphHU diluted at 1:50 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7139642.