Datasheet for ABIN6971763

anti-H2AFX antibody (C-Term)

3 Images

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Overview

Quantity:	100 µL
Target:	H2AFX
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	This Histone H2AX antibody was raised against a peptide derived from the C-terminus of human histone H2AX.
Isotype:	IgG
Characteristics:	Histone H2AX (H2AX, H2A histone family member X) replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries that require DNA as a template. Histones thereby play a central role in transcriptional regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called the histone code, and nucleosome remodeling. Histone H2AX is 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. Histone H2A.X antibody (pAb) (H2AX) was raised in a Rabbit host. It has been

Product Details

	validated for use in Chromatin Immunoprecipitation, Immunocytochemistry, Immunofluorescence and Western blot, it has been shown to react with Human samples.
Purification:	Affinity Purified

Target Details

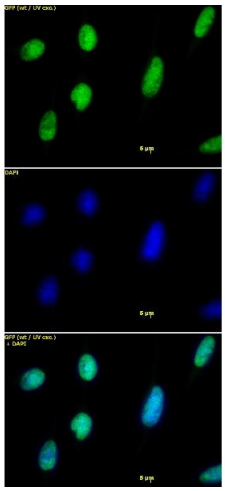
Target:	H2AFX
Alternative Name:	Histone H2A.X (H2AFX Products)
Molecular Weight:	15 kDa
NCBI Accession:	NP_002096
Pathways:	Telomere Maintenance, DNA Damage Repair, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

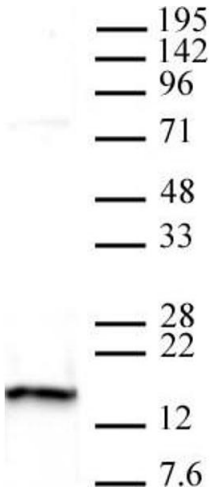
Handling

Buffer:	Purified IgG in 70 mM Tris (pH 8), 105 mM NaCl, 31 mM glycine, 0.07 mM EDTA, 30 % glycerol and 0.035 % sodium azide.
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
Storage Comment:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



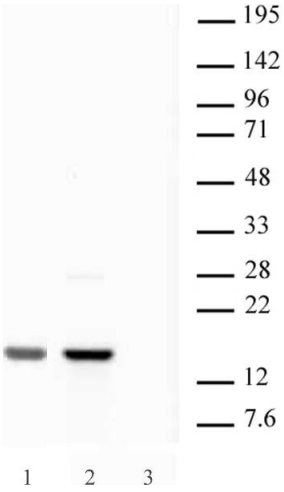
Immunofluorescence

Image 1. Histone H2AX antibody tested by immunofluorescence. Detection of Histone H2AX by immunofluorescence. HeLa cells were stained with Histone H2AX antibody at a dilution of 1:1,000. Top panel: Histone H2AX antibody staining. Middle panel: DAPI. Bottom panel: merge.



Western Blotting

Image 2. Histone H2AX pAb tested by Western blot. 30 µg of HeLa cell nuclear extract was probed with Histone H2AX pAb at a dilution of 1:2,000.



Western Blotting

Image 3. Histone H2AX pAb tested by Western blot. Western blot probed with Histone H2AX pAb at a dilution of 1:2,000. Lane 1: Recombinant human histone H2AX (100 ng). Lane 2: Mouse embryonic fibroblast (MEF) cell wild type nuclear lysate. Lane 3: MEF cell nuclear extract derived from H2AX -/- nulls.