Datasheet for ABIN7139600

anti-H2AFZ antibody (meLys4)

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3 Images

Overview

Quantity:	100 µL
Target:	H2AFZ
Binding Specificity:	meLys4
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This H2AFZ antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Peptide sequence around site of Mono-methyl-Lys (4) derived from Human Histone H2A.Z
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	H2AFZ
Alternative Name:	H2AFZ (H2AFZ Products)
Background:	Background: Variant histone H2A which replaces conventional H2A in a subset of

Target Details

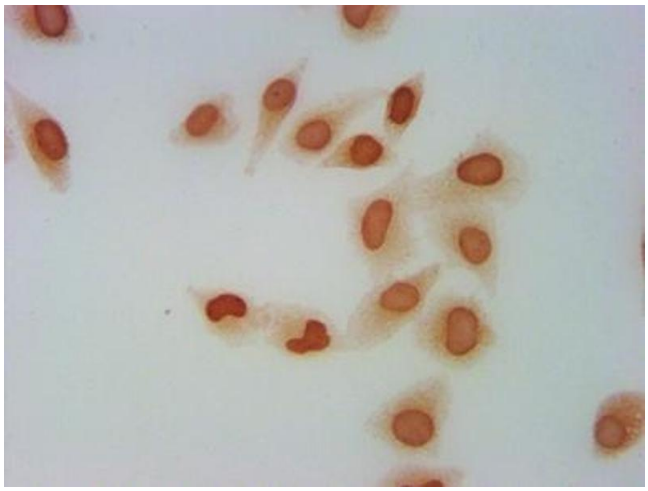
	nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. May be involved in the formation of constitutive heterochromatin. May be required for chromosome segregation during cell division. Aliases: H2A histone family member Z antibody, H2A.z antibody, H2A/z antibody, H2afz antibody, H2AZ antibody, H2AZ_HUMAN antibody, Histone H2A.Z antibody, MGC117173 antibody
UniProt:	P0C0S5
Pathways:	Telomere Maintenance

Application Details

Application Notes:	Recommended dilution: ICC:1:1-1:10, IF:1:1-1:10,
Restrictions:	For Research Use only

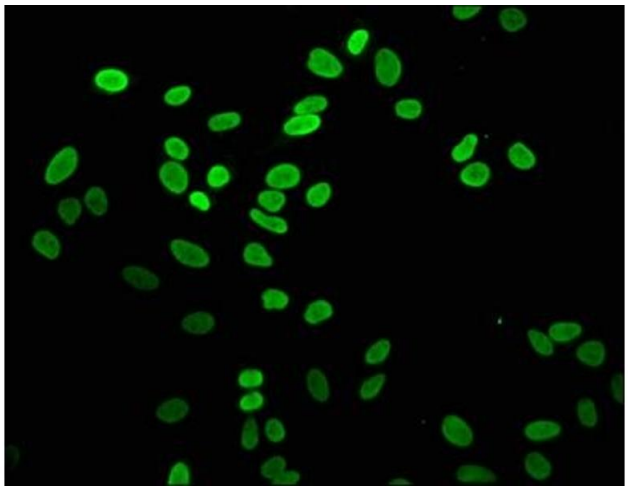
Handling

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.



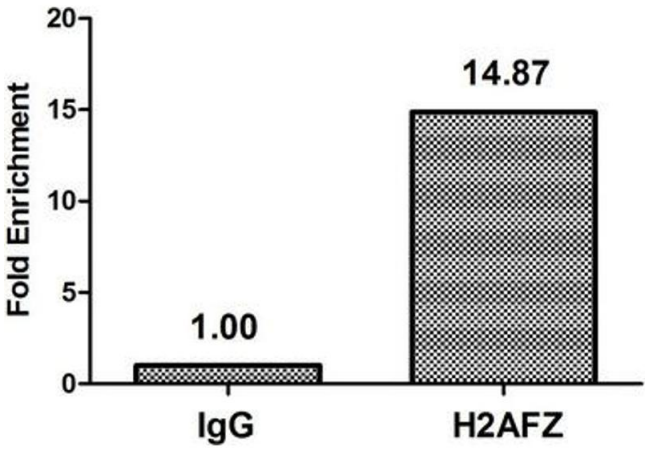
Immunocytochemistry

Image 1. Immunocytochemistry analysis of ABIN7139600 diluted at 1:5 and staining in Hela cells performed on a Leica BondTM system. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and 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.



Immunofluorescence

Image 2. Immunofluorescence staining of Hela cells with ABIN7139600 at 1:5, 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).



Immunohistochemistry

Image 3. Chromatin Immunoprecipitation Hela (4*10 6) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5 µg anti-H2AFZ (ABIN7139600) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β-Globin promoter.