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Datasheet for ABIN7139609
anti-HIST1H2AG antibody (meLys9)

3 Images

Overview

Quantity:	100 µL
Target:	HIST1H2AG
Binding Specificity:	meLys9
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HIST1H2AG antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Peptide sequence around site of Mono-methyl-Lys (9) derived from Human Histone H2A type 1
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	HIST1H2AG
Alternative Name:	HIST1H2AG (HIST1H2AG Products)
Background:	Background: Core component of nucleosome. Nucleosomes wrap and compact DNA into

Target Details

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.

Aliases: H2AC11 antibody, H2AFP antibody, HIST1H2AG, antibody, H2AC13 antibody, H2AFC antibody, HIST1H2AI, antibody, H2AC15 antibody, H2AFD antibody, HIST1H2AK, antibody, H2AC16 antibody, H2AFI antibody, HIST1H2AL, antibody, H2AC17 antibody, H2AFN antibody, HIST1H2AMHistone H2A type 1 antibody, H2A.1 antibody, Histone H2A/ptl antibody

UniProt: [P0C0S8](#)

Application Details

Application Notes: Recommended dilution: ICC:1:10-1:100, IF:1:1-1:10,

Restrictions: For Research Use only

Handling

Format: Liquid

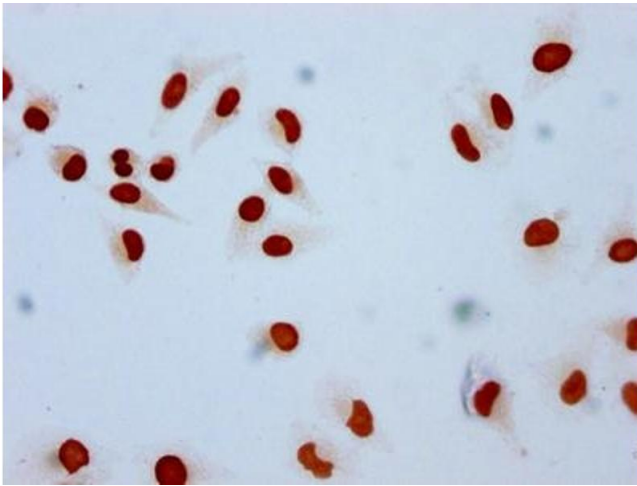
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

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

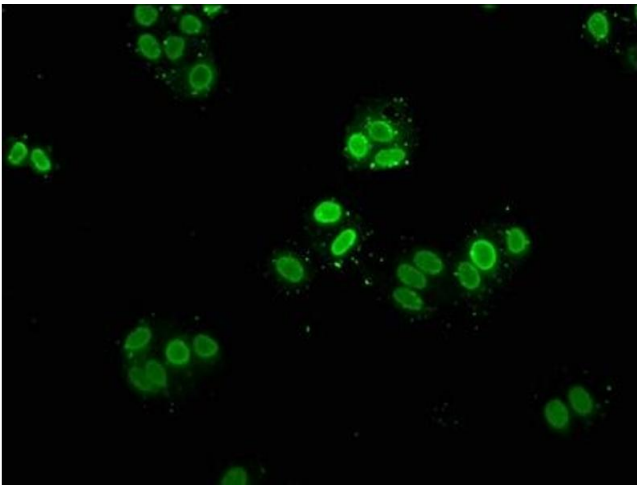
Storage: -20 °C,-80 °C

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



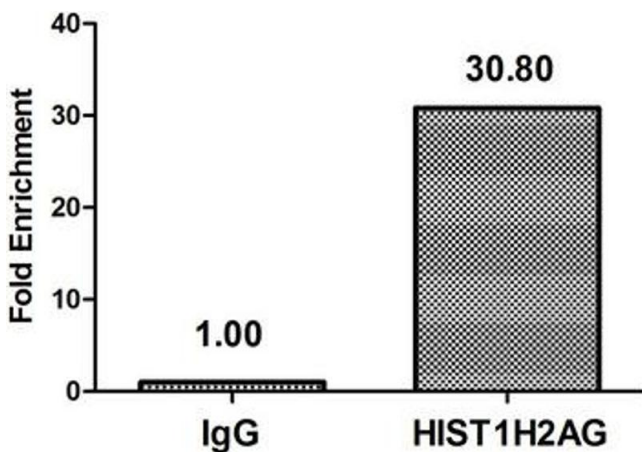
Immunocytochemistry

Image 1. Immunocytochemistry analysis of ABIN7139609 diluted at 1:10 and staining in HeLa cells performed on a Leica Bond™ 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 ABIN7139609 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-conjugated 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 μ g anti-HIST1H2AG (ABIN7139609) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β -Globin promoter.