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Datasheet for ABIN7139182
anti-HIST1H3A antibody (acLys4)

4 Images

Overview

Quantity:	100 µL
Target:	HIST1H3A
Binding Specificity:	acLys4
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HIST1H3A antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Immunoprecipitation (IP)

Product Details

Immunogen:	Peptide sequence around site of Acetyl-Lys (4) derived from Human Histone H3.1
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	HIST1H3A
Alternative Name:	HIST1H3A (HIST1H3A 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: H3 histone family member E pseudogene antibody, H3 histone family, member A antibody, H3/A antibody, H31_HUMAN antibody, H3F3 antibody, H3FA antibody, Hist1h3a antibody, HIST1H3B antibody, HIST1H3C antibody, HIST1H3D antibody, HIST1H3E antibody, HIST1H3F antibody, HIST1H3G antibody, HIST1H3H antibody, HIST1H3I antibody, HIST1H3J antibody, HIST3H3 antibody, histone 1, H3a antibody, Histone cluster 1, H3a antibody, Histone H3 3 pseudogene antibody, Histone H3.1 antibody, Histone H3/a antibody, Histone H3/b antibody, Histone H3/c antibody, Histone H3/d antibody, Histone H3/f antibody, Histone H3/h antibody, Histone H3/i antibody, Histone H3/j antibody, Histone H3/k antibody, Histone H3/l antibody

UniProt: [P68431](#)

Application Details

Application Notes: Recommended dilution: WB:1:200-1:2000, IF:1:1-1:10, IP:1:200-1:2000,

Restrictions: For Research Use only

Handling

Format: Liquid

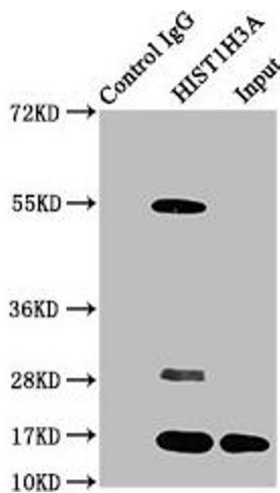
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

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

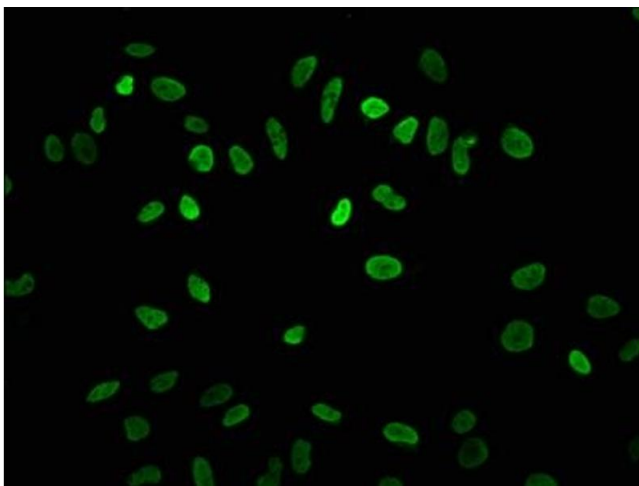
Storage: -20 °C,-80 °C

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



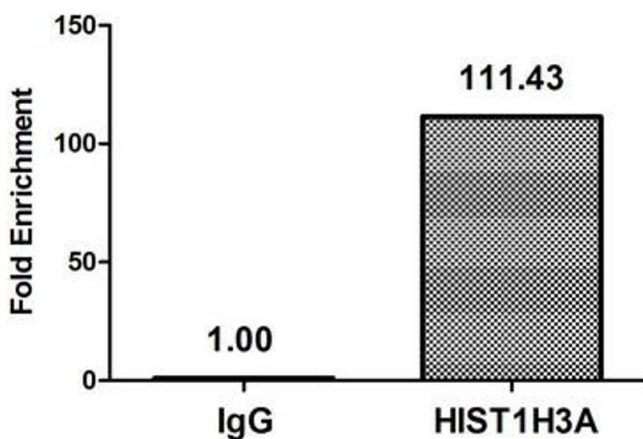
Western Blotting

Image 1. Immunoprecipitating HIST1H3A in HepG2 whole cell lysate (treated with 30 mM sodium butyrate for 4h)
 Lane 1: Rabbit control IgG instead of ABIN7139182 in HepG2 whole cell lysate (treated with 30 mM sodium butyrate for 4h). For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
 Lane 2: ABIN7139182 (5 µg) + HepG2 whole cell lysate (treated with 30 mM sodium butyrate for 4h) (500 µg)
 Lane 3: HepG2 whole cell lysate (treated with 30 mM sodium butyrate for 4h) (20 µg)



Immunofluorescence

Image 2. Immunofluorescence staining of HeLa cells with ABIN7139182 at 1:7.5, 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 , treated with 30 mM sodium butyrate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5 µg anti-HIST1H3A (ABIN7139182) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β -Globin promoter.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7139182.