Crotonyl-HIST1H2AG (K118) Antibody

PACO56683

Product Information

Size:

50ul

Reactivity:

Human

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, ICC, IF, ChIP

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:200-1:2000, ICC:1:20-1:200, IF:1:50-1:200

Protein Background:

Core component of nucleosome. 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.

Gene ID:

HIST1H2AG

Uniprot

P0C0S8

Synonyms:

Histone H2A type 1 (H2A.1) (Histone H2A/ptl), HIST1H2AG; HIST1H2AI; HIST1H2AK; HIST1H2AL; HIST1H2AM, H2AFP; H2AFC; H2AFD; H2AFI; H2AFN

Immunogen:

Peptide sequence around site of Crotonyl-Lys (118) derived from Human Histone H2A type 1.

Storage:

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

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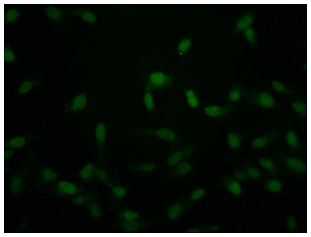
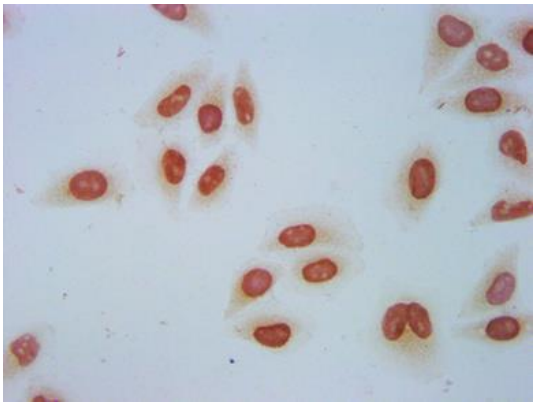
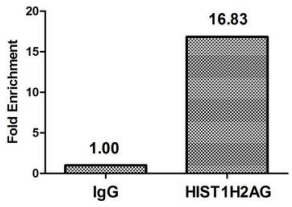
Product Images



Immunofluorescence staining of Hela cells with PACO56683 at 1:50, 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).



Immunocytochemistry analysis of PACO56683 diluted at 1:50 and staining in Hela cells (treated with 30mM sodium crotonylate for 4h) 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.



Chromatin Immunoprecipitation Hela (4*10^6

, treated with 30mM sodium crotonylate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-HIST1H2AG (PACO56683) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the beta -Globin promoter.