Butyrly-HIST1H4A (K16) Antibody

PACO58668

Product Information

Size:

50ul

Reactivity:

Human

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IF, ChIP

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:100-1:1000, IF:1:1-1:10

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:

HIST1H4A

Uniprot

P62805

Synonyms:

Histone H4, HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4H; HIST1H4I; HIST1H4J; HIST1H4K; HIST1H4L; HIST2H4A; HIST2H4B; HIST4H4, H4/A H4FA; H4/I H4FI; H4/G H4FG; H4/B H4FB; H4/J H4FJ; H4/C H4FC; H4/H H4FH; H4/M H4FM; H4/E H4FE; H4/D H4FD; H4/K H4FK; H4/N H4F2 H4FN HIST2H4; H4/O H4FO;

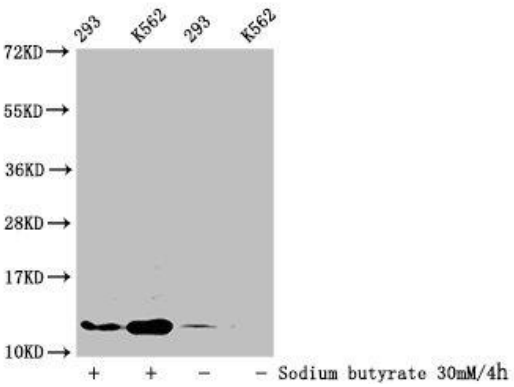
Immunogen:

Peptide sequence around site of Butyrly-Lys (16) derived from Human Histone H4.

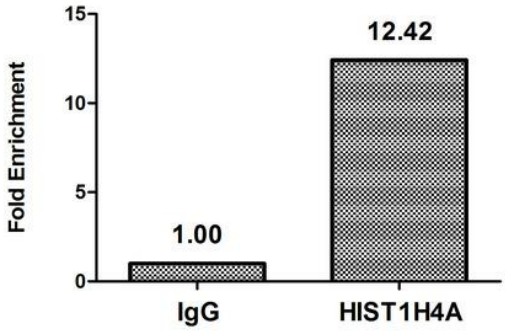
Storage:

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

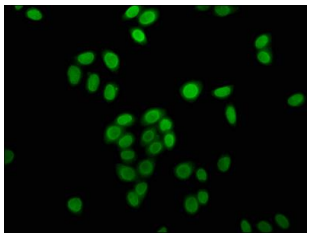
Product Images



Western Blot. Detected samples: 293 whole cell lysate, K562 whole cell lysate; Untreated (-) or treated (+) with 30mM sodium butyrate for 4h. All lanes: HIST1H4A antibody at 1:100. Secondary. Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 12 kDa. Observed band size: 12 kDa.



Chromatin Immunoprecipitation Hela (4*10^6 treated with 30mM sodium butyrate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-HIST1H4A (PACO58668) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the beta -Globin promoter.



Immunofluorescence staining of Hela cells (treated with 30mM sodium butyrate for 4h) with PACO58668 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).

