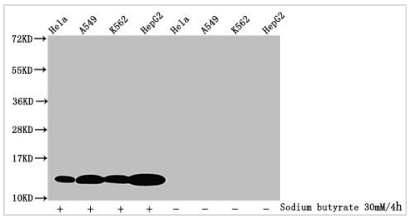
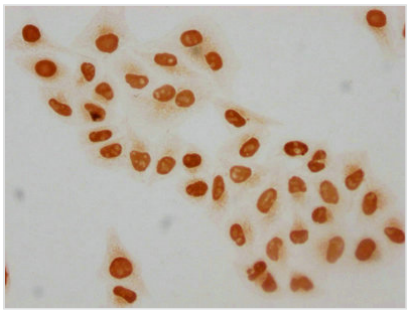
2-hydroxyisobutyryl-HIST1H4A (K12) Antibody

Product Code	CSB-PA010429PA12hibHU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P62805
Immunogen	Peptide sequence around site of 2-hydroxyisobutyryl-Lys (12) derived from human Histone H4
Raised In	Rabbit
Species Reactivity	Human
Tested Applications	ELISA, WB, ICC, IF, IP, ChIP; Recommended dilution: WB:1:100-1:1000, ICC:1:20-1:200, IF:1:10-1:100, IP:1:200-1:2000
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purification Method	Antigen Affinity Purified
Isotype	IgG
Clonality	Polyclonal
Product Type	Polyclonal Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Target Names	HIST1H4A

Image

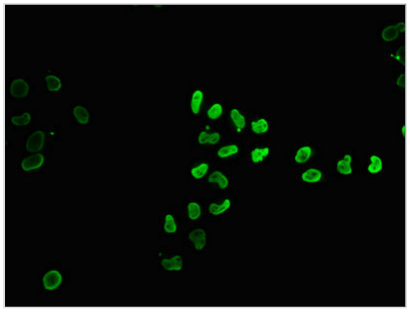


Western Blot
Detected samples: Hela whole cell lysate, A549 whole cell lysate, K562 whole cell lysate, HepG2 whole cell lysate; Untreated (-) or treated (+) with 30mM sodium butyrate for 4h
All lanes: HIST1H4A antibody at 1.25µg/ml
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 12 kDa
Observed band size: 12 kDa

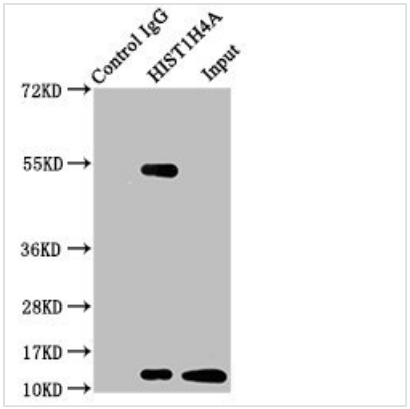


Immunocytochemistry analysis of CSB-PA010429PA12hibHU diluted at 1:30 and staining in Hela cells (treated with 30mM sodium butyrate for 4h) performed on a Leica BondTM system. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody

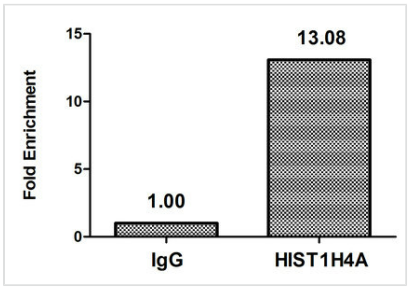
and visualized using an HRP conjugated SP system.



Immunofluorescence staining of Hela cells (treated with 30mM sodium butyrate for 4h) with CSB-PA010429PA12hibHU at 1:15, 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).



Immunoprecipitating HIST1H4A in HepG2 whole cell lysate (treated with 30mM sodium butyrate for 4h)
Lane 1: Rabbit control IgG instead of CSB-PA010429PA12hibHU in HepG2 whole cell lysate (treated with 30mM sodium butyrate for 4h). For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
Lane 2: CSB-PA010429PA12hibHU (3µg) + HepG2 whole cell lysate (treated with 30mM sodium butyrate for 4h) (500µg)
Lane 3: HepG2 whole cell lysate (treated with 30mM sodium butyrate for 4h) (20µg)



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 (CSB-PA010429PA12hibHU) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β-Globin promoter.