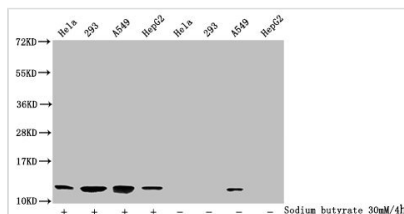




# 2-hydroxyisobutyryl-HIST1H4A (K16) Antibody

<b>Product Code</b>	CSB-PA010429OA16hibHU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P62805
<b>Immunogen</b>	Peptide sequence around site of 2-hydroxyisobutyryl-Lys (16) derived from Human Histone H4
<b>Raised In</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IF, IP, ChIP; Recommended dilution: WB:1:1000-1:5000, IF:1:1-1:10, IP:1:200-1:2000
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
<b>Purification Method</b>	Antigen Affinity Purified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Alias</b>	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;
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Target Names</b>	HIST1H4A

## Image

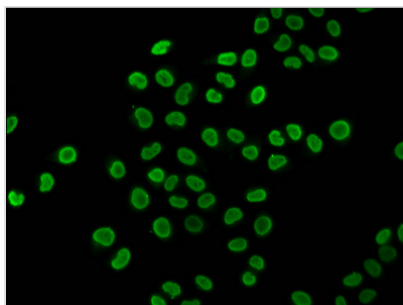


### Western Blot

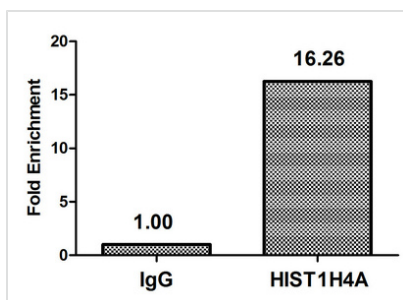
Detected samples: HeLa whole cell lysate, 293 whole cell lysate, A549 whole cell lysate, HepG2 whole cell lysate; Untreated (-) or treated (+) with 30mM sodium butyrate for 4h  
All lanes: HIST1H4A antibody at 1:2000

### Secondary

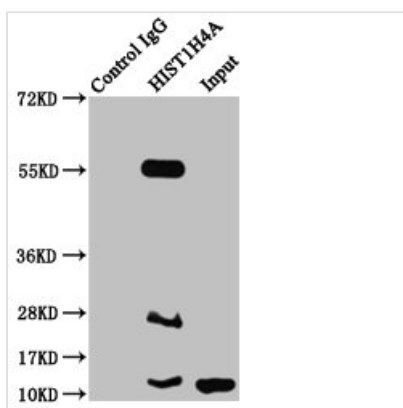
Goat polyclonal to rabbit IgG at 1/40000 dilution  
Predicted band size: 12 kDa  
Observed band size: 12 kDa



Immunofluorescence staining of HeLa cells (treated with 30mM sodium butyrate for 4h) with CSB-PA010429OA16hibHU 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).



Chromatin Immunoprecipitation HeLa ( $4 \times 10^6$ , treated with 30mM sodium butyrate for 4h) were treated with Benzanase, sonicated, and immunoprecipitated with 5µg anti-HIST1H4A (CSB-PA010429OA16hibHU) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the  $\beta$ -Globin promoter.



Immunoprecipitating HIST1H4A in HepG2 whole cell lysate (treated with 30mM sodium butyrate for 4h)

Lane 1: Rabbit control IgG instead of CSB-PA010429OA16hibHU 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-PA010429OA16hibHU (5µg) + 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)

## Usage

For Research Use Only. Not for use in diagnostic or therapeutic procedures.