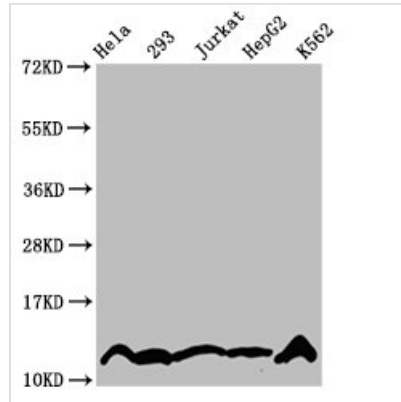




Crotonyl-HIST1H4A (K5) Antibody

Product Code	CSB-PA010429OA05crHU
Abbreviation	Histone H4
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P62805
Immunogen	Peptide sequence around site of Crotonyl-Lys (5) derived from Human Histone H4
Raised In	Rabbit
Species Reactivity	Human
Tested Applications	ELISA, WB, IF, IP, ChIP; Recommended dilution: WB:1:100-1:1000, IF:1:50-1:200, IP:1:200-1:2000
Relevance	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.
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
Alias	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;
Species	Human
Research Area	Epigenetics and Nuclear Signaling
Target Names	HIST1H4A
Image	


Western Blot

Positive WB detected in: HeLa whole cell lysate, 293 whole cell lysate, Jurkat whole cell lysate, HepG2 whole cell lysate, K562 whole cell lysate (treated by 30mM sodium crotonylate for 4h)

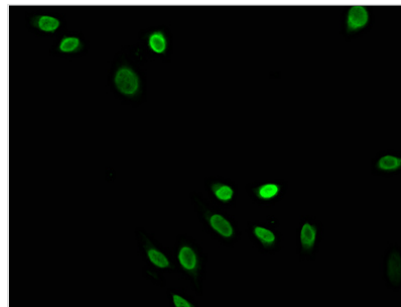
All lanes: HIST1H4A antibody at 2.2µg/ml

Secondary

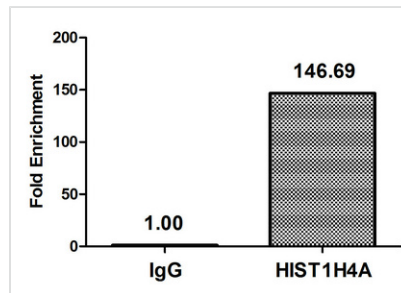
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 12 kDa

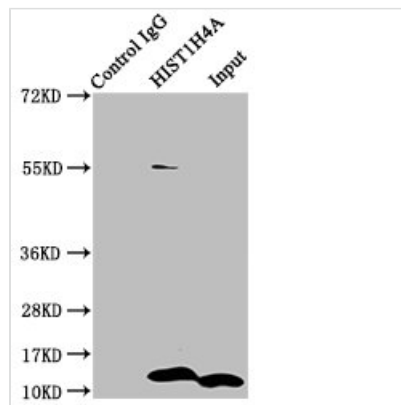
Observed band size: 12 kDa



Immunofluorescence staining of HeLa cells with CSB-PA010429OA05crHU at 1:75, 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 (4×10^6 , treated with 30mM sodium crotonylate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-HIST1H4A (CSB-PA010429OA05crHU) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β -Globin promoter.



Immunoprecipitating HIST1H4A in HeLa whole cell lysate

Lane 1: Rabbit control IgG instead of CSB-PA010429OA05crHU in HeLa whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-PA010429OA05crHU (5µg) + HeLa whole cell lysate (500µg)

Lane 3: HeLa whole cell lysate (20µg)