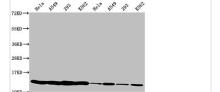






## Propionyl-HIST1H4A (K8) Antibody

Product Code       CSB-PA010429OA08propHU         Storage       Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.         Uniprot No.       P62805         Immunogen       Peptide sequence around site of Propionyl-Lys (8) derived from Human Histor H4         Raised In       Rabbit         Species Reactivity       Human         Tested Applications       ELISA, WB, IF, IP, ChIP; Recommended dilution: WB:1:1000-1:5000, IF:1:20-1:200, 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         Alias       Histone H4, HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4C; HIST1H4E; HIST1H4E; HIST1H4F; HIST1H4F; HIST1H4F; HIST1H4F; HIST1H4F; HIST1H4F; HA/G HAFG; HA/B HAFB; HA/J HAFD; HA/F HA/F HA/F HA/F HA/F HA/F HA/F HA/F		
Uniprot No. P62805  Immunogen Peptide sequence around site of Propionyl-Lys (8) derived from Human Histor H4  Raised In Rabbit  Species Reactivity Human  Tested Applications ELISA, WB, IF, IP, ChIP; Recommended dilution: WB:1:1000-1:5000, IF:1:20-1:200, IP:1:200-1:2000  Form Liquid  Conjugate Non-conjugated  Storage Buffer Preservative: 0.03% Proclin 300	<b>Product Code</b>	CSB-PA010429OA08propHU
Immunogen Peptide sequence around site of Propionyl-Lys (8) derived from Human Histor H4  Raised In Rabbit  Species Reactivity Human  Tested Applications ELISA, WB, IF, IP, ChIP; Recommended dilution: WB:1:1000-1:5000, IF:1:20-1:200, 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  Alias Histone H4, HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4F; HIST1H4H; HIST1H4J; HIST1H4K; HIST1H4L; HIST1H4C; H4FB; H4/J H4FB; H4/J H4FB; H4/D H4FC; H4/H H4FH; H4/M H4FH; H4/G H4FE; H4/D H4FB; H4/D H4FB; H4/K H4FK; H4/N H4FB; H4/D H4FD; H4/K H4FK; H4/N H4FB; H4/D H4FD; H4/K H4FK; H4/N H4FB; H4/D H4FD; H4/K H4FB; H1ST1H4A  Immunogen Species Homo sapiens (Human)  Research Area Epigenetics and Nuclear Signaling  Target Names HIST1H4A  Image	Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Raised In Rabbit  Species Reactivity Human  Tested Applications ELISA, WB, IF, IP, ChIP; Recommended dilution: WB:1:1000-1:5000, IF:1:20-1:200, 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  Alias Histone H4, HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4H; HIST1H4H; HIST1H4J; HIST1H4K; HIST1H4L; HIST1H4L; HIST1H4K; HIST1H4L; HIST1H4K; HIST1H4L; HIST1H4K; HIST1H4L; HIST2H4A; HIST2H4A; HIST4H4, HAFA; HAFA; HAFA; HAFA; HAFD; HAFA; HAF	Uniprot No.	P62805
Species Reactivity Human  Tested Applications ELISA, WB, IF, IP, ChIP; Recommended dilution: WB:1:1000-1:5000, IF:1:20-1:200, 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  Alias Histone H4, HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4H; HIST1H4H; HIST1H4J; HIST1H4L; HIST2H4A; HIST2H4B; HIST3H4H, HA/A H4FA; HA/I H4FI; HA/G H4FG; H4/B H4FB; H4/J H4FB; H4/J H4FB; H4/D H4FC; H4/N H4FP, H4/N H4FP, H4/O H4FO;  Immunogen Species Homo sapiens (Human)  Research Area Epigenetics and Nuclear Signaling  Target Names HIST1H4A  Image	Immunogen	Peptide sequence around site of Propionyl-Lys (8) derived from Human Histone H4
Tested Applications  ELISA, WB, IF, IP, ChIP; Recommended dilution: WB:1:1000-1:5000, IF:1:20-1:200, 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  Alias  Histone H4, HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4F; HIST1H4H; HIST1H4J; HIST1H4K; HIST1H4L; HIST2H4A; HIST2H4B; HIST3H4H, H4/A H4FA; H4/I H4FI; H4/G H4FG; H4/B H4FB; H4/J H4FJ; H4/C H4FC; H4/IH H4FH; H4/M H4FM; H4/E H4FE; H4/D H4FD; H4/K H4FK; H4/N H4F2 H4FN HIST2H4; H4/O H4FO;  Immunogen Species  Homo sapiens (Human)  Research Area  Epigenetics and Nuclear Signaling  Target Names  HIST1H4A  Image	Raised In	Rabbit
IF:1:20-1:200, IP:1:200-1:2000	Species Reactivity	Human
Conjugate  Non-conjugated  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; HIST3H4H, 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 Species  Homo sapiens (Human)  Research Area  Epigenetics and Nuclear Signaling  Target Names  HIST1H4A  Image	Tested Applications	
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; HIST1H4H; 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 Species Homo sapiens (Human)  Research Area Epigenetics and Nuclear Signaling  Target Names HIST1H4A  Image	Form	Liquid
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; HIST1H4F; HIST1H4H; HIST1H4J; HIST1H4K; HIST1H4L; HIST2H4A; HIST2H4B; 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 Species Homo sapiens (Human)  Research Area Epigenetics and Nuclear Signaling  Target Names HIST1H4A	Conjugate	Non-conjugated
Isotype IgG  Clonality Polyclonal  Alias Histone H4, HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4H; 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 Species Homo sapiens (Human)  Research Area Epigenetics and Nuclear Signaling  Target Names HIST1H4A	Storage Buffer	
Clonality Polyclonal  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 Species Homo sapiens (Human)  Research Area Epigenetics and Nuclear Signaling  Target Names HIST1H4A	Purification Method	Antigen Affinity Purified
Alias  Histone H4, HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4H; HIST1H4J; 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 Species  Homo sapiens (Human)  Research Area  Epigenetics and Nuclear Signaling  Target Names  HIST1H4A  Image	Isotype	IgG
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 Species Homo sapiens (Human)  Research Area Epigenetics and Nuclear Signaling  Target Names HIST1H4A Image	Clonality	Polyclonal
Research Area Epigenetics and Nuclear Signaling  Target Names HIST1H4A  Image	Alias	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
Target Names HIST1H4A Image	Immunogen Species	Homo sapiens (Human)
Image	Research Area	Epigenetics and Nuclear Signaling
	Target Names	HIST1H4A
	Image	



Western Blot

Detected samples: Hela whole cell lysate, A549 whole cell lysate, 293 whole cell lysate, K562 whole cell lysate; Untreated (-) or treated (+) with

10mM sodium propionate for 4h

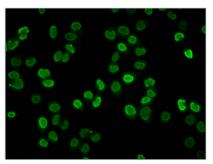
All lanes: HIST1H4A antibody at 1:2000

Goat polyclonal to rabbit IgG at 1/40000 dilution

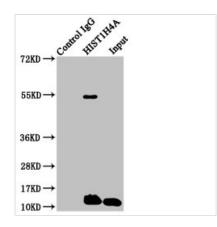
Predicted band size: 12 kDa Observed band size: 12 kDa







Immunofluorescence staining of Hela cells (treated with 10mM sodium propionate for 4h) with CSB-PA010429OA08propHU at 1:25, 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).

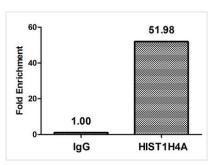


Immunoprecipitating HIST1H4A in Hela whole cell lysate

Lane 1: Rabbit control IgG instead of CSB-PA010429OA08propHU 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-PA010429OA08propHU (5μg) + Hela whole cell lysate (500µg)

Lane 3: Hela whole cell lysate (20µg)



Chromatin Immunoprecipitation Hela (4\*10<sup>6</sup>, treated with 10mM sodium propionate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-HIST1H4A (CSB-PA010429OA08propHU) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β-Globin promoter.