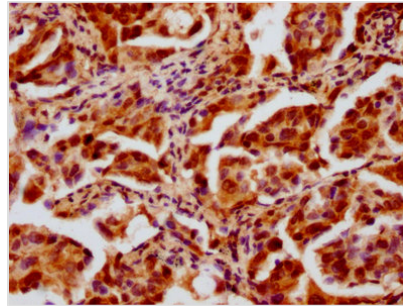




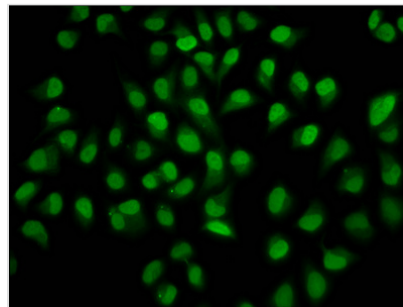
HIST1H4A (Ab-12) Antibody

Product Code	CSB-PA010429OA12nhibHU
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 Lys (12) derived from Human Histone H4
Raised In	Rabbit
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, IHC, IF, IP; Recommended dilution: WB:1:100-1:1000, IHC:1:10-1:100, IF:1:10-1:100, 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

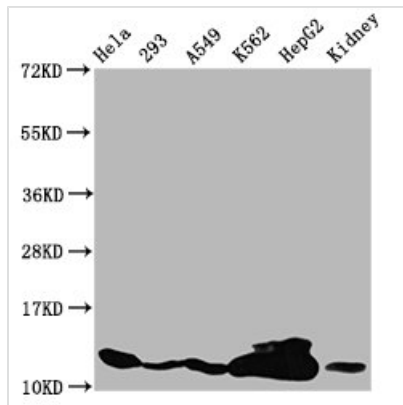
Image



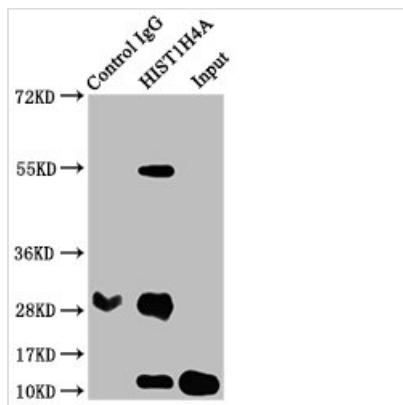
IHC image of CSB-PA010429OA12nhibHU diluted at 1:20 and staining in paraffin-embedded human lung cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at 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 with CSB-PA010429OA12nhibHU at 1:10, 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).



Western Blot
 Positive WB detected in: HeLa whole cell lysate, 293 whole cell lysate, A549 whole cell lysate, K562 whole cell lysate, HepG2 whole cell lysate, Mouse kidney tissue
 All lanes: HIST1H4A antibody at 3.2µg/ml
 Secondary
 Goat polyclonal to rabbit IgG at 1/50000 dilution
 Predicted band size: 12 kDa
 Observed band size: 12 kDa



Immunoprecipitating HIST1H4A in HeLa whole cell lysate
 Lane 1: Rabbit control IgG instead of CSB-PA010429OA12nhibHU 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-PA010429OA12nhibHU (8µg) + HeLa whole cell lysate (500µg)
 Lane 3: HeLa whole cell lysate (20µg)