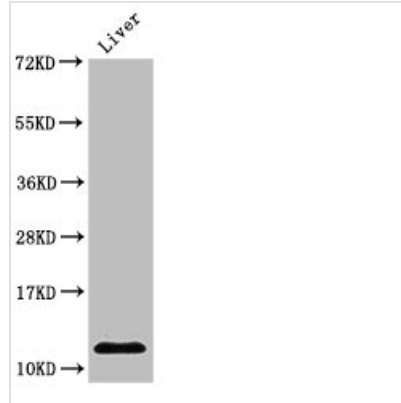




HIST1H4A (Ab-8) Antibody

| | |
|----------------------------|--|
| Product Code | CSB-PA010429PA08nacHU |
| 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 (8) derived from Human Histone H4 |
| Raised In | Rabbit |
| Species Reactivity | Human, Mouse, Rat |
| Tested Applications | ELISA, WB, IHC, IF, IP, CHIP; Recommended dilution: WB:1:100-1:1000, IHC:1:20-1:200, 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 | Homo sapiens (Human) |
| Research Area | Epigenetics and Nuclear Signaling |
| Target Names | HIST1H4A |
| Image | |


Western Blot

Positive WB detected in: Rat liver tissue

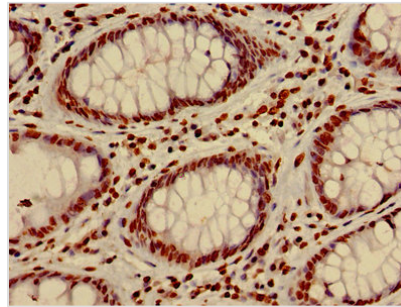
 All lanes: HIST1H4A antibody at 2 μ g/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 12 kDa

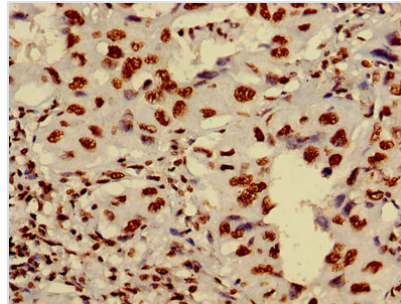
Observed band size: 12 kDa



Immunohistochemistry of paraffin-embedded

human colon cancer using CSB-

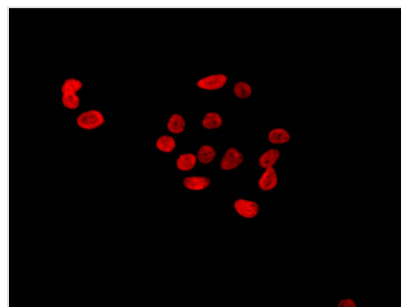
PA010429PA08nacHU at dilution of 1:100



Immunohistochemistry of paraffin-embedded

human lung cancer using CSB-

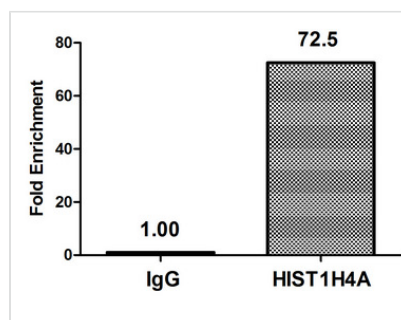
PA010429PA08nacHU at dilution of 1:100



Immunofluorescent analysis of HeLa cells using

CSB-PA010429PA08nacHU at dilution of 1:100

and Cy3-conjugated Goat Anti-Rabbit IgG


 Chromatin Immunoprecipitation HeLa (4×10^6)

were treated with Micrococcal Nuclease,

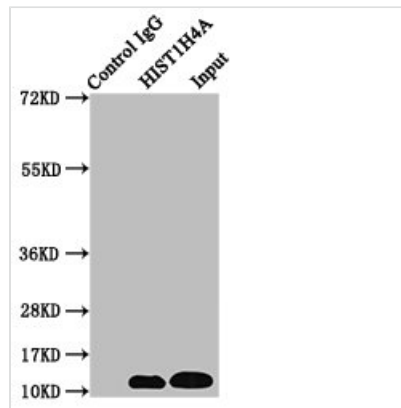
 sonicated, and immunoprecipitated with 8 μ g anti-

HIST1H4A (CSB-PA010429PA08nacHU) or a

control normal rabbit IgG. The resulting ChIP

DNA was quantified using real-time PCR with

 primers against the β -Globin promoter.



Immunoprecipitating H1H4A in NIH/3T3 whole cell lysate

Lane 1: Rabbit control IgG instead of CSB-PA010429PA08nacHU in NIH/3T3 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-PA010429PA08nacHU (5 μ g) + NIH/3T3 whole cell lysate (500 μ g)

Lane 3: NIH/3T3 whole cell lysate (20 μ g)