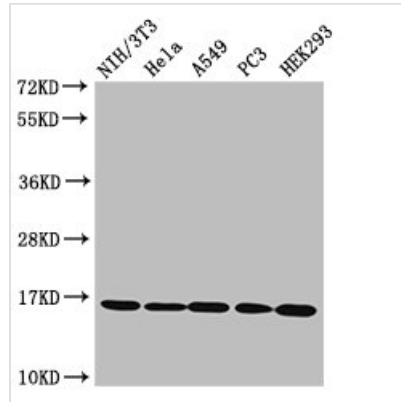




# HIST1H3A (Ab-17) Antibody

<b>Product Code</b>	CSB-PA010418OA17nme1HU
<b>Abbreviation</b>	Histone H3.1
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P68431
<b>Immunogen</b>	Peptide sequence around site of Arg (17) derived from Human Histone H3.1
<b>Raised In</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse
<b>Tested Applications</b>	ELISA, WB, IHC, IF, ChIP; Recommended dilution: WB:1:200-1:2000, IHC:1:20-1:200, IF:1:50-1:200
<b>Relevance</b>	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.
<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 H3.1 (Histone H3/a) (Histone H3/b) (Histone H3/c) (Histone H3/d) (Histone H3/f) (Histone H3/h) (Histone H3/i) (Histone H3/j) (Histone H3/k) (Histone H3/l), HIST1H3A; HIST1H3B; HIST1H3C; HIST1H3D; HIST1H3E; HIST1H3F; HIST1H3G; HIST1H3H; HIST1H3I; HIST1H3J, H3FA; H3FL; H3FC; H3FB; H3FD; H3FI; H3FH; H3FK; H3FF; H3FJ
<b>Species</b>	Human
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Target Names</b>	HIST1H3A
<b>Image</b>	



**Western Blot**

Positive WB detected in: NIH/3T3 cell acid extracts, HeLa cell acid extracts, A549 cell acid extracts, PC-3 cell acid extracts, HEK293 cell acid extracts

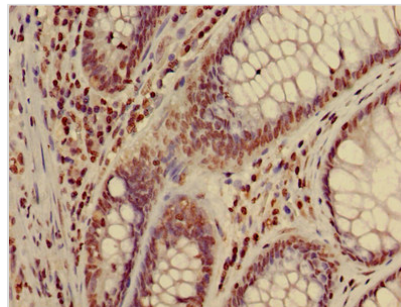
All lanes: HIST1H3A antibody at 1.6µg/ml

Secondary

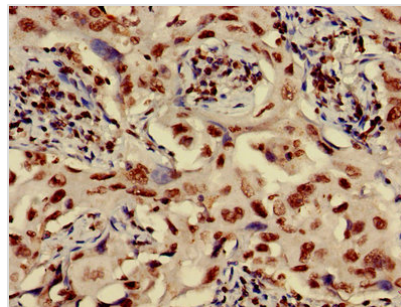
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 16 kDa

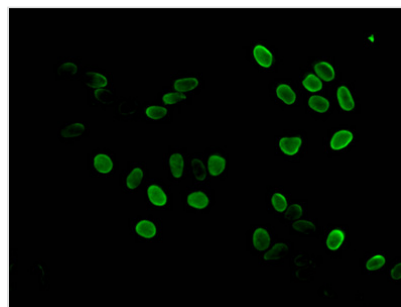
Observed band size: 16 kDa



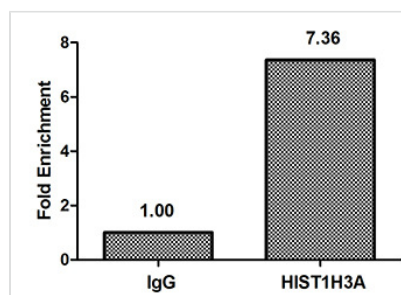
Immunohistochemistry of paraffin-embedded human colon cancer using CSB-PA010418OA17nme1HU at dilution of 1:100



Immunohistochemistry of paraffin-embedded human lung cancer using CSB-PA010418OA17nme1HU at dilution of 1:100



Immunofluorescent analysis of HeLa cells using CSB-PA010418OA17nme1HU at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Chromatin Immunoprecipitation HeLa ( $4 \times 10^6$ ) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 8µg anti-HIST1H3A (CSB-PA010418OA17nme1HU) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the  $\beta$ -Globin promoter.