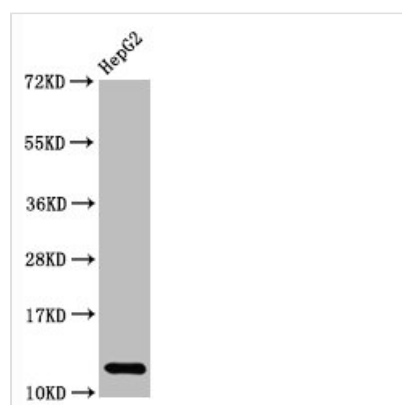




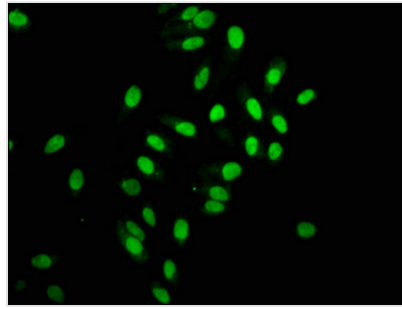
# Histone H2A type 1-B/E Antibody

<b>Product Code</b>	CSB-RA010385A0HU
<b>Abbreviation</b>	Histone H2A type 1-B/E
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P04908
<b>Immunogen</b>	A synthesized peptide
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IF; Recommended dilution: WB:1:500-1:5000, IF:1:30-1:200
<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>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	Histone H2A type 1-B/E, Histone H2A.2, Histone H2A/a, Histone H2A/m, HIST1H2AB, H2AFM, AND, HIST1H2AE, H2AFA
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Gene Names</b>	HIST1H2AB
<b>Accession NO.</b>	1H12

## Image



Western Blot  
 Positive WB detected in HepG2 whole cell lysate  
 All lanes Histone H2A type 1-B/E antibody at 2.7µg/ml  
 Secondary  
 Goat polyclonal to rabbit IgG at 1/50000 dilution  
 Predicted band size: 13 KDa  
 Observed band size: 13 KDa



Immunofluorescence staining of HeLa cells with CSB-RA010385A0HU at 1:168, 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).

## Description

The recombinant monoclonal antibody against histone H2A type 1-B/E was prepared by transfecting the vector containing the DNA for the histone H2A type 1-B/E monoclonal antibody into the cell lines for in vitro production. The product was purified using affinity chromatography to obtain the histone H2A type 1-B/E recombinant antibody. This antibody is a rabbit IgG and recognizes human histone H2A type 1-B/E. It has been tested and approved for use in ELISA, WB, and IF.

Histone proteins are required for the shift between active and inactive chromatin states, both structurally and functionally. Histones have evolved to play a variety of roles in gene regulation and epigenetic silencing, despite their high conservation due to restrictions to maintain the overall shape of the nucleosomal octameric core. DNA replication, transcription, repair, and recombination are influenced by histone variations, post-translational modifications, and interactions with chromatin remodeling complexes.