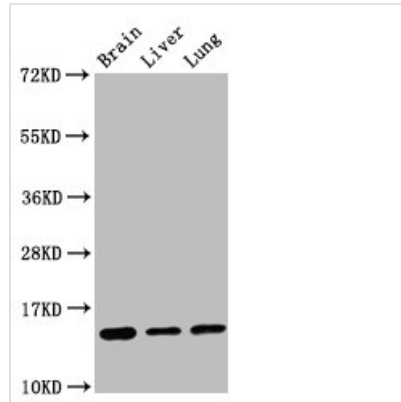




# Histone H2B type 1-K Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA010411A0HU
<b>Abbreviation</b>	Histone H2B type 1-K
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	O60814
<b>Immunogen</b>	A synthesized peptide
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IHC; Recommended dilution: WB:1:5000-1:10000, IHC:1:50-1:500
<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>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Gene Names</b>	HIST1H2BK
<b>Clone No.</b>	4G10

Image



#### Western Blot

Positive WB detected in: Mouse brain tissue, Rat liver tissue, Rat lung tissue

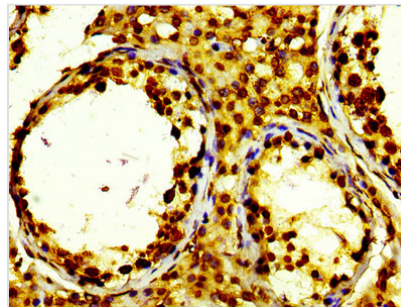
All lanes: Histone H2B type 1-K antibody at 0.16μg/ml

#### Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 14 KDa

Observed band size: 14 KDa



IHC image of CSB-RA010411A0HU diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica Bond<sup>TM</sup> 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? overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

## Description

CUSABIO got the DNA sequence of the histone H2B type 1-K monoclonal antibody that was produced from the splenocytes derived from animals with the human histone H2B type 1-K synthesized peptide immunization. The DNA sequence was cloned into the plasmid and then transfected into cell lines for in vitro expression. The product is the histone H2B type 1-K recombinant monoclonal antibody. It is a rabbit IgG antibody purified using the affinity-chromatography method. This histone H2B type 1-K antibody is recommended for ELISA, WB, and IHC applications and detects the histone H2B type 1-K protein from human sources.

A study by Shih-Yi Lin *et al.* has reported that Alpha 1-Antitrypsin and H2B1K are diagnostic and prognostic biomarkers for urothelial carcinoma after proteome profiling of urinary exosomes. H2B1K has been demonstrated to have prognostic significance, as 3-fold increases in its levels properly predicted recurrence.