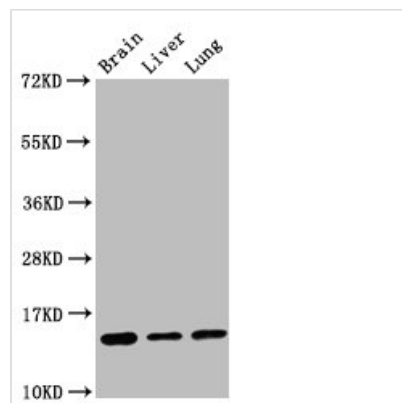




Histone H2B type 1-K Antibody

Product Code	CSB-RA010411A0HU
Abbreviation	Histone H2B type 1-K
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O60814
Immunogen	A synthesized peptide
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:5000-1:10000, IHC:1:50-1:500
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	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Gene Names	HIST1H2BK
Accession NO.	4G10

Image



Western Blot

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

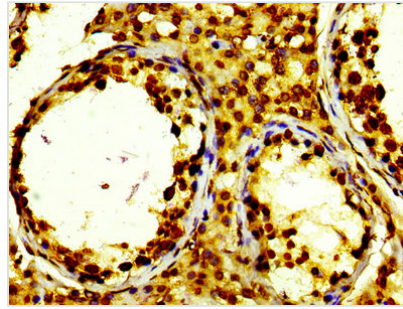
All lanes: Histone H2B type 1-K antibody at 0.16µg/ml

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 BondTM 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.

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.