



# Histone H2B Rabbit mAb

<b>Catalog No</b>	YP-rAb-17892
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human,Mouse,Rat
<b>Applications</b>	WB,IHC,IF,IP,ELISA,CHIP,Cut&Tag
<b>Gene Name</b>	HIST1H2BC H2BFL; HIST1H2BE H2BFH; HIST1H2BF H2BFG; HIST1H2BG H2BFA; HIST1H2BI H2BFK
<b>Protein Name</b>	Histone H2B
<b>Purification Process</b>	Protein A
<b>Specificity</b>	Endogenous
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source</b>	Monoclonal, Rabbit,IgG
<b>Dilution</b>	IHC 1:20000-1:50000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; CHIP 1:50-1:100; Cut&Tag 1:50-1:100; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
<b>Concentration</b>	0.5 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-15° C to -25° C/1 year(Do not lower than -25° C)
<b>Synonyms</b>	Histone H2B type 1-C/E/F/G/I ; Histone H2B.1 A ; Histone H2B.a ; H2B/a ; Histone H2B.g ; H2B/g ; Histone H2B.h ; H2B/h ; Histone H2B.k ; H2B/k ; Histone H2B.l ; H2B/l ;
<b>Observed Band</b>	14kD
<b>Calculated Molecular Weight</b>	14kD
<b>Cell Pathway</b>	Nucleus
<b>Tissue Specificity</b>	
<b>Function</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.,miscellaneous:The mouse orthologous protein seems not to exist.,PTM:Monoubiquitination of Lys-121 by the RNF20/40 complex gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation. It also





functions cooperatively with the FACT dimer to stimulate elongation by RNA polymerase II.,PTM:Phosphorylated on Ser-15 by STK4/MST1 during apoptosis; which facilitates apoptotic chromatin condensation. Also phosphorylated on Ser-15 in response to DNA double strand breaks (DSBs), and in correlation with somatic hypermutation and immunoglobulin class-switch recombination.,similarity:Belongs to the histone H2B family.,subunit:The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA.,

### Background

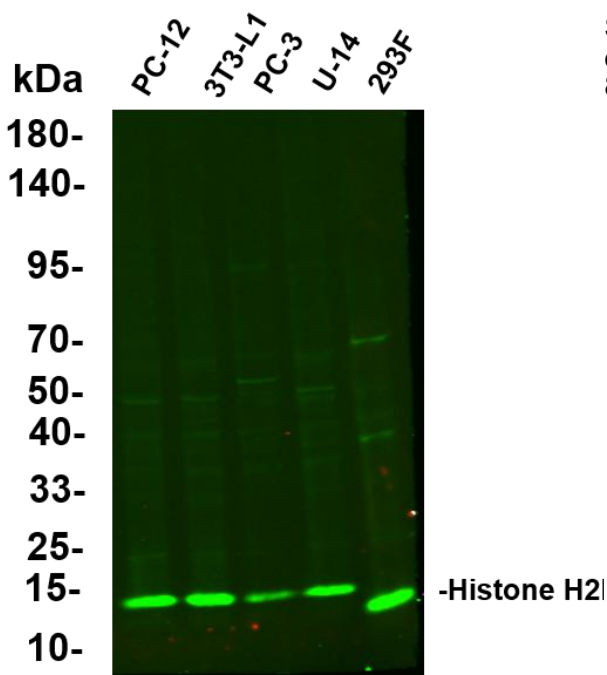
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2B family. Two transcripts that encode the same protein have been identified for this gene, which is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015],

### matters needing attention

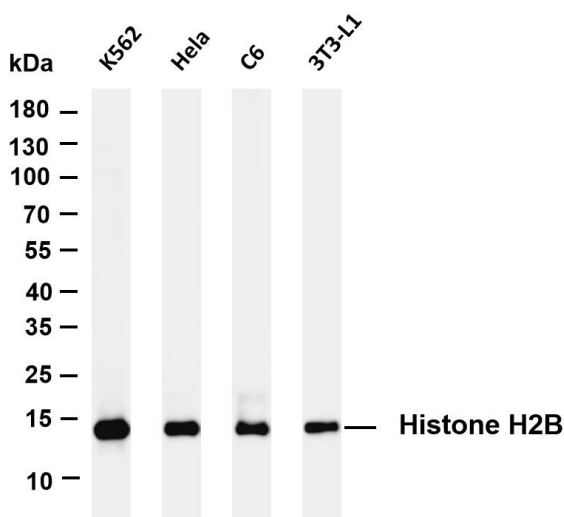
Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

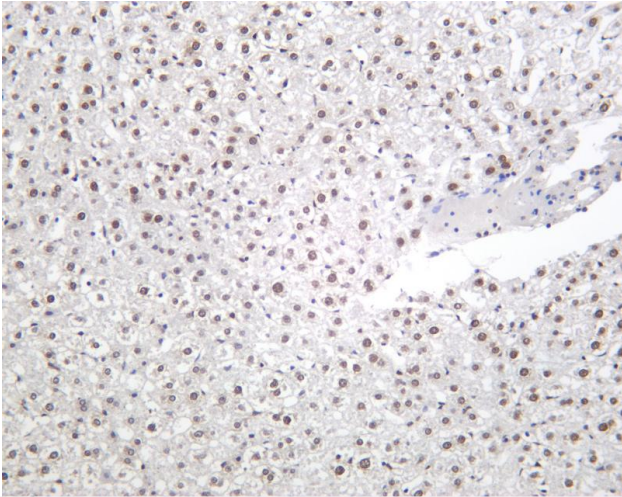


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:2500 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody

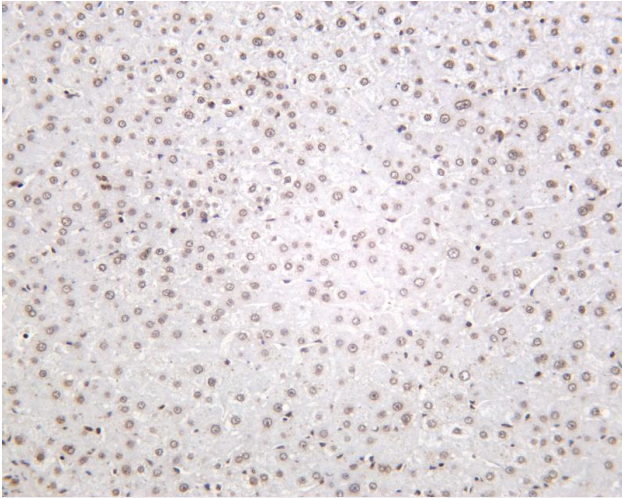


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Histone H2B antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Lane 2: HeLa Lane 3: C6 Lane 4: 3T3-L1 Predicted band size: 14kDa Observed band size: 14kDa

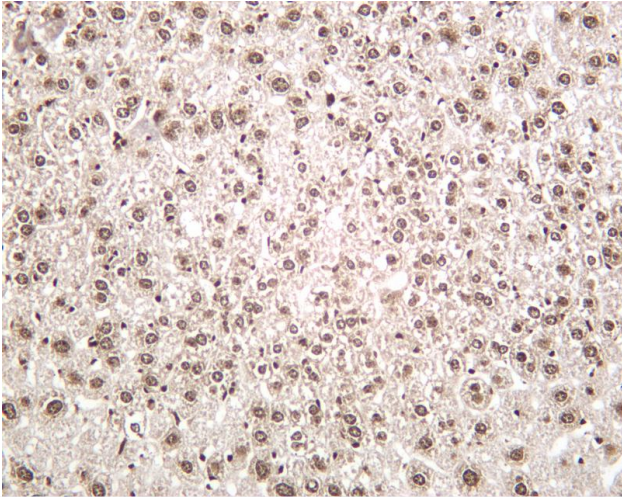




Rat liver was stained with anti-Histone H2B rabbit antibody



Human liver was stained with anti-Histone H2B rabbit antibody



Mouse liver was stained with anti-Histone H2B rabbit antibody

