

Histone H2B (PT0420R) PT[™] Rabbit mAb

CatalogNo: YM8262 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat,

Applications

- WB, IHC, IF, IP, ELISA

MW

- 14kD (Calculated)
14kD (Observed)

Isotype

- IgG, Kappa

Recommended Dilution Ratios

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

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Basic Information

Clonality Monoclonal**Clone Number** PT0420R

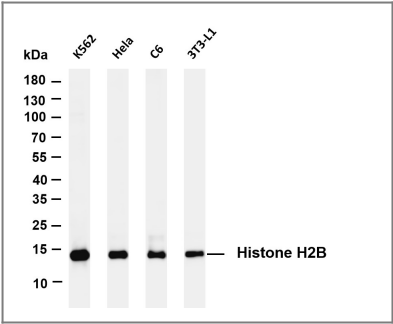
Immunogen Information

Specificity Endogenous

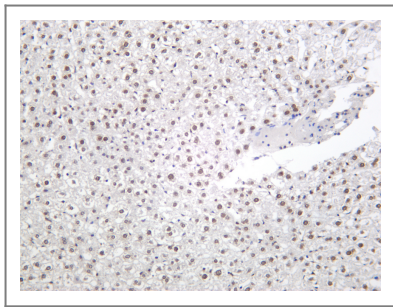
Target Information

Gene name	HIST1H2BC H2BFL; HIST1H2BE H2BFH; HIST1H2BF H2BFG; HIST1H2BG H2BFA; HIST1H2BI H2BFK		
Protein Name	Histone H2B (Acetyl Lys35)		
	Organism	Gene ID	UniProt ID
	Human	3017 ;	P62807 ; P58876 ; Q93079 ; O60814 ; Q99880 ; Q99879 ; Q99877 ; Q5QNW6 ; P57053 ;
	Mouse	319179 ;	Q6ZWY9 ;
Cellular Localization	Nucleus		
Function	Function: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.,		

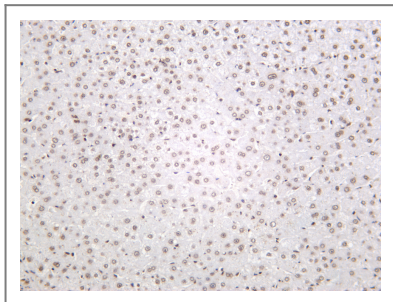
Validation Data



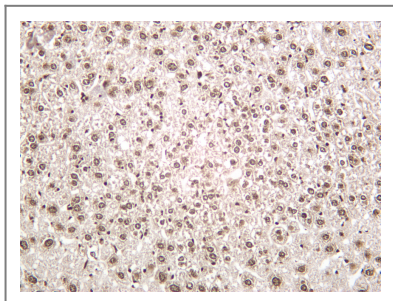
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Histone H2B antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Lane 2: HeLa Lane 3: C6 Lane 4: 3T3-L1 Predicted band size: 14kDa Observed band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

Contact information

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**Histone H2B
(PT0420R) PT™
Rabbit mAb**

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