

Histone H2B Monoclonal Antibody(Mix)

Catalog No :	YM3162
Reactivity :	Human;Mouse;Rat
Applications :	WB;IF;
Target :	Histone H2B
Fields :	>>Neutrophil extracellular trap formation;>>Alcoholism;>>Viral carcinogenesis;>>Systemic lupus erythematosus
Gene Name :	HIST1H2BB
Protein Name :	Histone H2B type 1-B
Human Gene Id :	3018
Human Swiss Prot No :	P33778
Mouse Gene Id :	319178
Mouse Swiss Prot No :	Q64475
Immunogen :	Synthetic Peptide of Histone H2B
Specificity :	The antibody detects endogenous Histone H2B protein.
Formulation :	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000-3000 IF 1:200
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 14kD

Cell Pathway : Systemic lupus erythematosus;

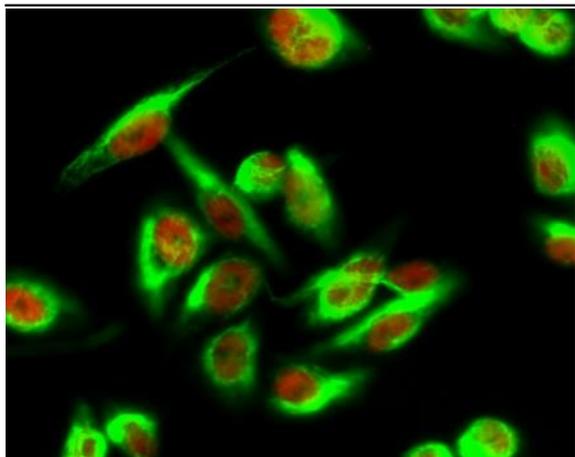
Background : Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The 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. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015],

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.,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 DN

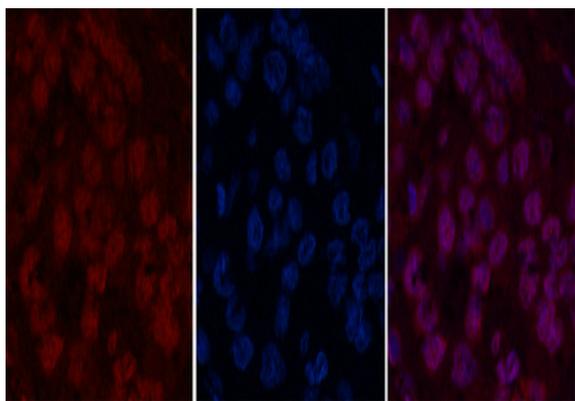
Subcellular Location : Nucleus. Chromosome.

Expression : Epithelium,

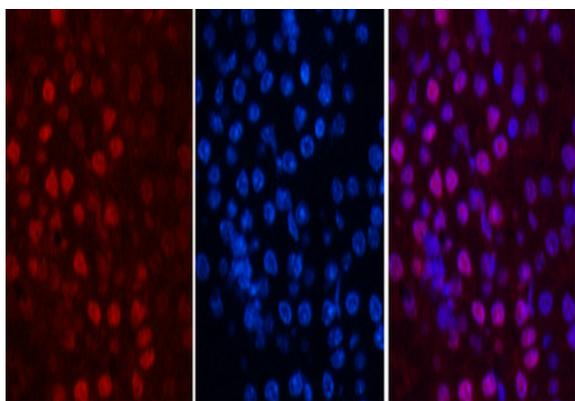
Products Images



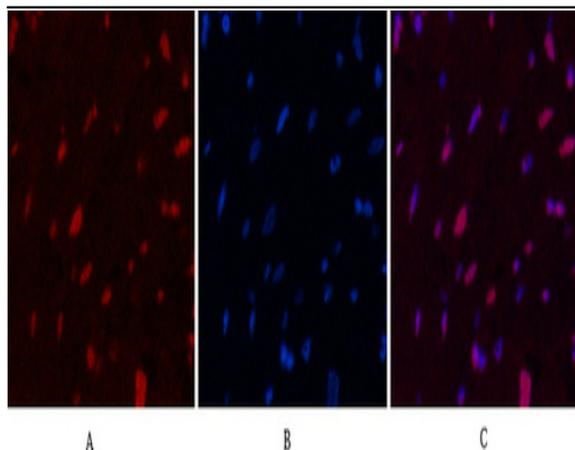
Immunofluorescence analysis of HeLa cell. 1, Brp44L Polyclonal Antibody (green) was diluted at 1:200 (4 ° overnight). (red) was diluted at 1:200 (4 ° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog: RS3211 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 594 Catalog: RS3608 was diluted at 1:1000 (room temperature, 50min).



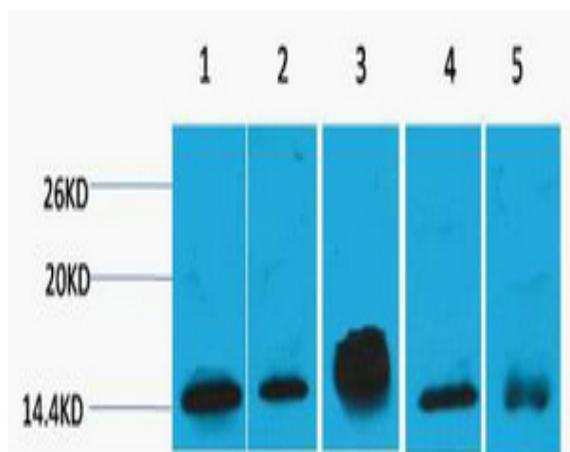
Immunofluorescence analysis of Human-liver-cancer tissue. 1, Histone H2B Monoclonal Antibody (Mix) (red) was diluted at 1:200 (4 ° C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Mouse-kidney tissue. 1, Histone H2B Monoclonal Antibody (Mix) (red) was diluted at 1:200 (4 ° C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Rat-heart tissue. 1, Histone H2B Monoclonal Antibody(Mix)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture C: merge of A+B



Western blot analysis of 1) HeLa, 2) 3T3, 3) Raw264.7, 4) Rat Brain, 5) Rat Kidney, diluted at 1:2000. cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).