

Product Name: KD-Validated H2B Clustered Histone 12 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01411

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:4,000-1:20,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 13.9kDa

Antigen Information

Gene Name	H2BC12
Alternative Names	H2BC12; H2B Clustered Histone 12; HIST1H2B; H2BFAiii; H2BFT; Histone Cluster 1 H2B Family Member K; H2B Histone Family, Member T; HIRA-Interacting Protein 1; Histone Cluster 1, H2bk; Histone H2B Type 1-K; Histone 1, H2bk; H2B K; Histone Family Member; HIRIP1; H2B/S; H2BK
Gene ID	85236.0
SwissProt ID	O60814
Immunogen	A synthesized peptide derived from human Histone H2B

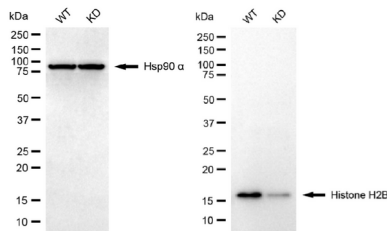
Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a replication-dependent histone that is a member of the histone H2B family. The protein encoded is an antimicrobial protein with antibacterial and antifungal activity. Two transcripts that encode the same protein have been identified for this gene, which is found in the histone microcluster on chromosome 6p21.33. [provided by RefSeq, Aug 2015]

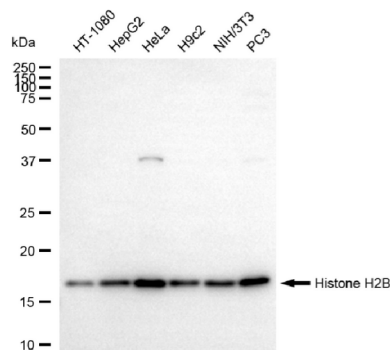
Research Area

Epigenetics and Nuclear Signaling

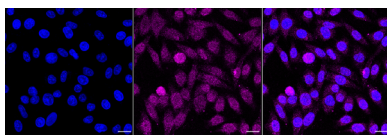
Image Data



Western blotting analysis using histone H2B antibody (KVA01411). Histone H2B expression in wild type (WT) and H2BC12 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with histone H2B antibody (KVA01411, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using histone H2B antibody (KVA01411). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with histone H2B antibody (KVA01411, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Histone H2B antibody (KVA01411, 1:1,000). Nuclei were stained blue with DAPI; Histone H2B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.