
Product Name: KD-Validated Phospho-Histone H3.3 (S31) Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01568**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 15.3kDa

Antigen Information

Gene Name	H3-3A
Alternative Names	H3-3A; H3.3 Histone A; H3.3A; H3F3A; H3F3; H3 Histone Family Member 3A; H3 Histone, Family 3A; Histone H3.3; BRYLIB1; H3-3B; H3.3B; H3F3B
Gene ID	3020.0
SwissProt ID	P84243
Immunogen	A synthesized peptide derived from human Phospho-Histone H3.3 (S31)

Background

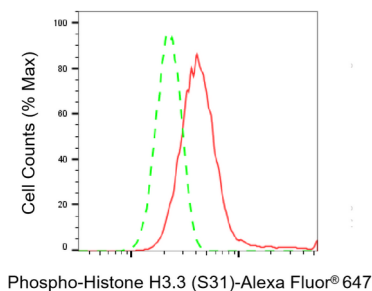
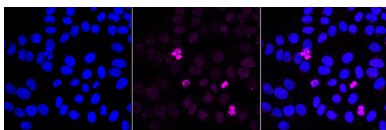
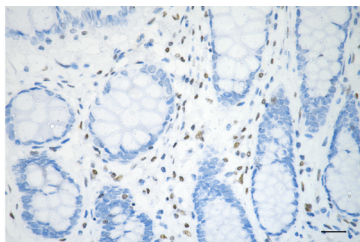
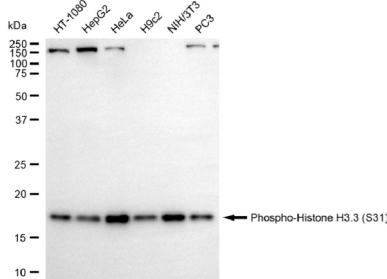
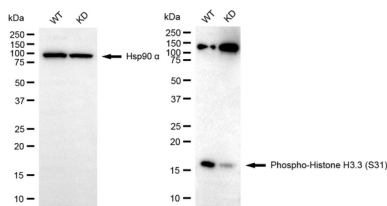
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp

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 contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded is a replication-independent member of the histone H3 family. [provided by RefSeq, Jul 2008]

Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blotting analysis using phospho-histone H3.3 (S31) antibody (KVA01568). Phospho-histone H3.3 (S31) expression in wild type (WT) and H3-3A knockdown (KD) HSHC cells with 5 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-histone H3.3 (S31) antibody (KVA01568, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Western blotting analysis using phospho-Histone H3.3 (S31) antibody (KVA01568). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-Histone H3.3 (S31) antibody (KVA01568, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using phospho-histone H3.3 (S31) antibody (KVA01568, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.

Immunocytochemical staining of HepG2 cells with Phospho-Histone H3.3 (S31) antibody (KVA01568, 1:1,000). Nuclei were stained blue with DAPI; Phospho-Histone H3.3 (S31) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.

Flow cytometric analysis of Phospho-Histone H3.3 (S31) expression in HepG2 cells using Phospho-Histone H3.3 (S31) antibody (KVA01568, 1:2,000). Green, isotype control; red, Phospho-Histone H3.3 (S31).