
Product Name: KO-Validated Phospho-Histone H2A.X (S139) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAAb00033

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,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 1:2,000-1:10,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 15.1kDa

Antigen Information

Gene Name	H2AX
Alternative Names	H2AX; H2A.X Variant Histone; H2AFX; H2A Histone Family Member X; Histone H2A.X; Histone H2AX; H2A Histone Family, Member X; H2AX Histone; H2A.X; H2A/X; H2a/X; γ-H2AX
Gene ID	3014.0
SwissProt ID	P16104
Immunogen	A synthesized peptide derived from human Phospho-Histone H2A.X (S139)

Background

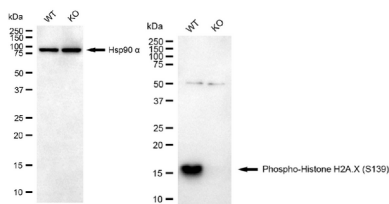
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp

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-independent histone that is a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq, Oct 2015]

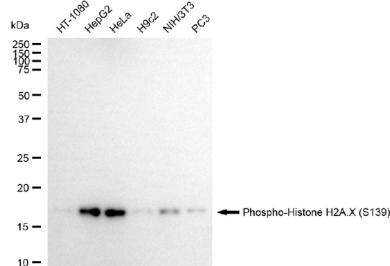
Research Area

Epigenetics and Nuclear Signaling

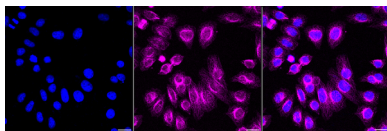
Image Data



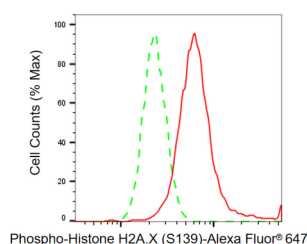
Western blotting analysis using phospho-Histone H2A.X (S139) antibody (KVA00033). Phospho-Histone H2A.X (S139) expression in wild-type (WT) and H2AX knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-Histone H2A.X (S139) antibody (KVA00033, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using phospho-Histone H2A.X (S139) antibody (KVA00033). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-Histone H2A.X (S139) antibody (KVA00033, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Phospho-Histone H2A.X (S139) antibody (KVA00033, 1:1,000). Nuclei were stained blue with DAPI; Phospho-Histone H2A.X (S139) 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 H2A.X (S139) expression in HepG2 cells using Phospho-Histone H2A.X (S139) antibody (KVA00033, 1:2,000). Green, isotype control; red, Phospho-Histone H2A.X (S139).