
Product Name: KD-Validated CENPA Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00402**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,ICC
Reactivity	Human
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; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 16.0kDa

Antigen Information

Gene Name	CENPA
Alternative Names	CENPA; Centromere Protein A; CENP-A; Histone H3-Like Centromeric Protein A; CenH3; Centromere-Specific Histone; Centromere Protein A, 17kDa; Centromere Autoantigen A; Centromere Protein A (17kD)
Gene ID	1058.0
SwissProt ID	P49450
Immunogen	A synthesized peptide derived from human CENPA

Background

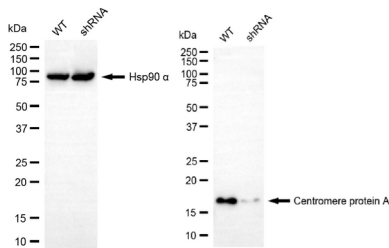
Centromeres are the differentiated chromosomal domains that specify the mitotic behavior of chromosomes. This gene encodes a centromere protein which contains a histone H3 related histone fold domain that is required for targeting to the

centromere. Centromere protein A is proposed to be a component of a modified nucleosome or nucleosome-like structure in which it replaces 1 or both copies of conventional histone H3 in the (H3-H4)₂ tetrameric core of the nucleosome particle. The protein is a replication-independent histone that is a member of the histone H3 family. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Nov 2015]

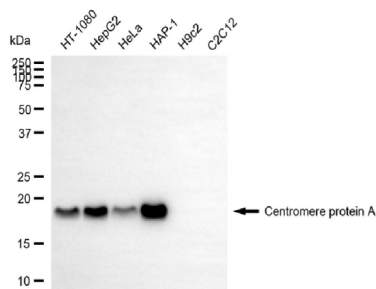
Research Area

Epigenetics and Nuclear Signaling

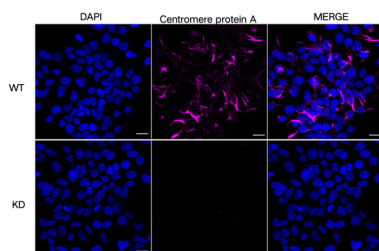
Image Data



Western blotting analysis using centromere protein A antibody (KVA00402). Centromere protein A expression in wild-type (WT) and centromere protein A (CENPA) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with centromere protein A antibody (KVA00402, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using centromere protein A antibody (KVA00402). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with centromere protein A antibody (KVA00402, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Centromere protein A antibody (KVA00402, 1:1,000), Top panel: wild-type (WT); Bottom panel: Centromere protein A shRNA knockdown (KD). Nuclei were stained blue with DAPI; Acyl-CoA dehydrogenase short chain was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.