Product Name: KD-Validated PCNA Mouse Monoclonal Antibody
Catalog #: KVAb00817
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse 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: 28.8kDa

Antigen Information

Gene Name	PCNA
Alternative Names	PCNA; Proliferating Cell Nuclear Antigen 2; Cyclin; DNA Polymerase Delta Auxiliary Protein; ATLD2
Gene ID	5111.0
SwissProt ID	P12004
Immunogen	A synthesized peptide derived from human PCNA

Background

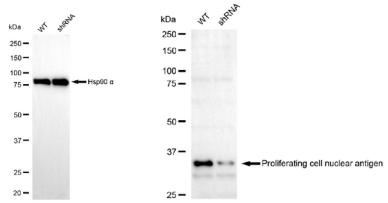
The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants

encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome. [provided by RefSeq, Jul 2008]

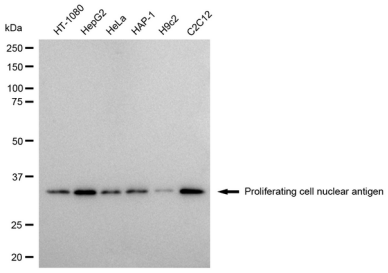
Research Area

Cell Biology,Epigenetics and Nuclear Signaling,Tags & Cell Markers

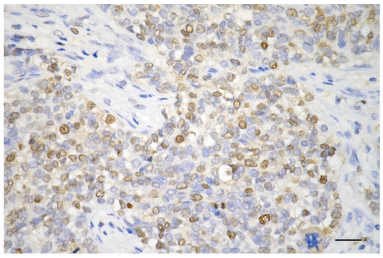
Image Data



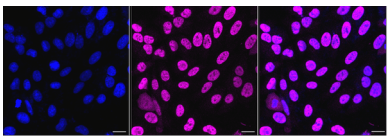
Western blotting analysis using proliferating cell nuclear antigen antibody (KVAb00817). Proliferating cell nuclear antigen expression in wild type (WT) and proliferating cell nuclear antigen (PCNA) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with proliferating cell nuclear antigen antibody (KVAb00817, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



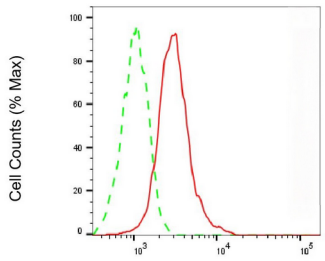
Western blotting analysis using Proliferating cell nuclear antigen antibody (KVAb00817). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Proliferating cell nuclear antigen antibody (KVAb00817, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using proliferating cell nuclear antigen antibody (KVAb00817, 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 Proliferating cell nuclear antigen protein antibody(KVAb00817, 1:1,000) . Nuclei were stained blue with DAPI; Proliferating cell nuclear antigen 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.



Proliferating cell nuclear antigen-Alexa Fluor® 647

Flow cytometric analysis of proliferating cell nuclear antigen expression in HepG2 cells using proliferating cell nuclear antigen antibody (KVAb00817, 1:2,000). Green, isotype control; red, Proliferating cell nuclear antigen.