For Research Use Only

PCNA Polyclonal antibody

Catalog Number: 10205-2-AP

Featured Product

1010 Publications



GenBank Accession Number: Catalog Number: **Purification Method: Basic Information** 10205-2-AP BC000491 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 750 ug/ml by 5111 WB 1:5000-1:50000 Nanodrop: IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: protein lysate Source P12004 IHC 1:1500-1:6000 Rabbit Full Name: IF-P 1:50-1:500 Isotype proliferating cell nuclear antigen IF/ICC 1:300-1:1200 lgG Calculated MW: Immunogen Catalog Number: 29 kDa/31 kDa AG0277 **Observed MW:** 36-38 kDa **Tested Applications:** Positive Controls: **Applications** WB, IHC, IF/ICC, IF-P, IP, ELISA WB: A431 cells, BALB/3T3 clone A31 cells, HEK293 **Cited Applications:** cells. HepG2 cells. mouse liver tissue, mouse testis WB, IHC, IF, IP, CoIP, Cell treatment tissue, Raji cells, rat liver tissue, rat testis tissue, HeLa cells, Jurkat cells, MCF-7 cells, PC-12 cells, NIH/3T3 **Species Specificity:** cells, C2C12 cells, mouse spleen tissue human, mouse, rat IP: MCF-7 cells. N/A **Cited Species:** human, mouse, chicken, bovine, hamster, goat, fish, IHC : human stomach cancer tissue, human liver cancer medaka embryos, alligator, ducks tissue, human malignant melanoma tissue, human breast cancer tissue, human colon cancer tissue Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen IF-P: mouse testis tissue, human breast cancer tissue retrieval may be performed with citrate IF/ICC : HepG2 cells, Neuro-2a cells, MCF-7 cells buffer pH 6.0 Proliferating Cell Nuclear Antigen, commonly known as PCNA, is a protein that acts as a processivity factor for DNA **Background Information** polymerase δ in eukaryotic cells. This protein is an auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. PCNA induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. It has to be loaded onto DNA in order to be able to stimulate APEX2. PCNA protein is highly conserved during evolution; the deduced amino acid sequences of rat and human differ by only 4 of 261 amino acids. PCNA has been used as loading control for proliferating cells. This antibody is a rabbit polyclonal antibody raised against an internal region of human PCNA. The calculated molecular weight of PCNA is 29 kDa, but modified PCNA is 36kDa (PMID: 1358458). **Notable Publications** Author Pubmed ID Journal Application Yongchun Yu 36183674 Transl Oncol WB **Bing Sun** 27684953 PLoS One WB J Mol Med (Berl) WB Xiaobing Zhao 36169673 Storage: Storage Store at -20°C. Stable for one year after shipment. Storage Buffer PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20 $^{\circ}$ C storage

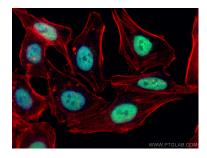
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

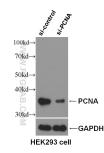
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

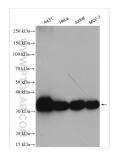
Selected Validation Data



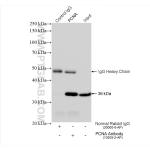
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PCNA antibody (10205-2-AP) at dilution of 1:600 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL94phalloidin (red), DAPI (Blue).



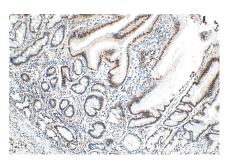
WB result of PCNA antibody (10205-2-AP, 1:10000) with si-control and si-PCNA transfected HEK293 cells.



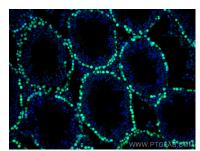
Various lysates were subjected to SDS PAGE followed by western blot with 10205-2-AP (PCNA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



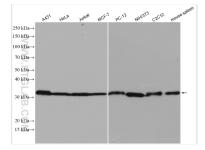
IP result of anti-PCNA (IP:10205-2-AP, 4ug; Detection:10205-2-AP 1:20000) with MCF-7 cells lysate 1880 ug.



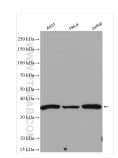
Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 10205-2-AP (PCNA antibody) at dilution of 1:3000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



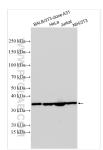
Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using PCNA antibody (10205-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



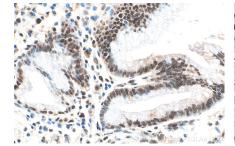
Various lysates were subjected to SDS PAGE followed by western blot with 10205-2-AP (PCNA antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.

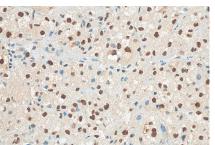


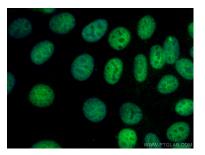
Various lysates were subjected to SDS PAGE followed by western blot with 10205-2-AP (PCNA antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10205-2-AP (PCNA antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.







Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 10205-2-AP (PCNA antibody) at dilution of 1:3000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 10205-2-AP (PCNA antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using PCNA antibody (10205-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).