

À des fins de recherche uniquement

Anticorps Monoclonal anti-PCNA

Numéro de catalogue: 60097-1-Ig

Phare

97 Publications



Informations de base

Numéro de catalogue:

60097-1-Ig

Numéro d'acquisition GenBank:

BC000491

Méthode de purification:

Purification par protéine G

Taille:

150ul, Concentration: 500 µg/ml by Nanodrop;

Identification du gène (NCBI):

5111

CloneNo.:

10D10E11

Hôte:

Mouse

Nom complet:

proliferating cell nuclear antigen

Dilutions recommandées:

WB 1:5000-1:50000

Isotype:

IgG1

MW calculé

29 kDa/31 kDa

IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB

Immunogen Catalog Number:

AG7416

MW observés:

36-38 kDa

IHC 1:500-1:2000

IF 1:250-1:1000

Applications

Applications testées:

FC, IF, IHC, IP, WB, ELISA

Demandes citées:

IF, IHC, IP, WB

Spécificité de l'espèce:

Humain, porc, rat, souris

Espèces citées:

Humain, Lapin, poisson-zèbre, porc, rat, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : cellules HEK-293, cellules 3T3-L1, cellules 4T1, cellules C6, cellules HeLa, cellules HepG2, cellules Jurkat, cellules K-562, cellules NIH/3T3, cellules RAW 264.7, cellules ROS1728

IP : cellules HepG2,

IHC : tissu de gliome humain, tissu d'amygdalite humaine, tissu de cancer du foie humain, tissu de cancer du sein humain, tissu ovarien de souris

IF : cellules HepG2, tissu cardiaque de souris

Informations générales

Proliferating Cell Nuclear Antigen, commonly known as PCNA, is a protein that acts as a processivity factor for DNA 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. The calculated molecular weight of PCNA is 29 kDa, but modified PCNA is 36kDa (PMID: 1358458).

Publications notables

Autrice	Pubmed ID	Journal	Application
Qingrong Zhang	34655915	Colloids Surf B Biointerfaces	WB,IHC
Kazuki Miura	36188330	ACS Omega	WB
Fei Han	29104493	Int J Biol Sci	WB,IHC

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquoteage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

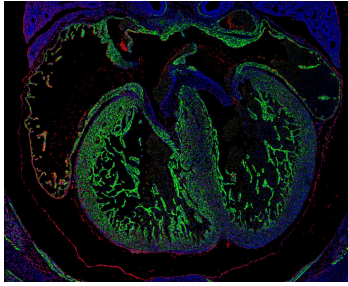
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

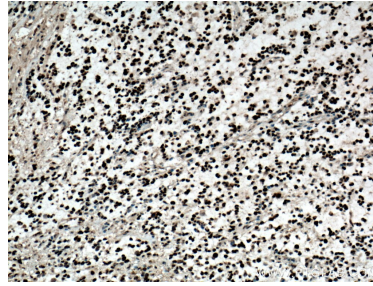
E: proteintech@ptglab.com
W: ptglab.com

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

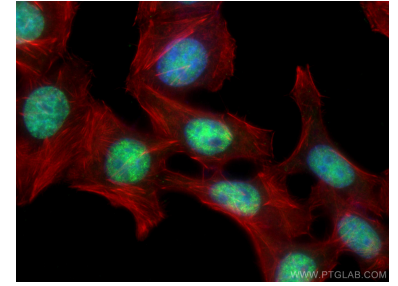
Données de validation sélectionnées



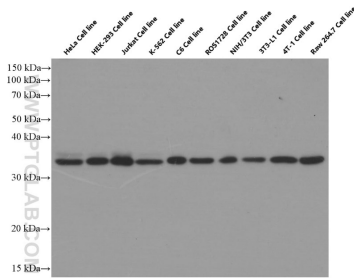
E14.5 FFPE mouse heart stained for Desmin (green, Cat. No CL488-16520) and PCNA (red, Cat. No 60097-1-Ig). Desmin was conjugated to CoraLite-488 fluorescent dye and stains cardiomyocytes (heart muscle cells). PCNA stains proliferating cells, which are numerous in the developing heart. In this image, the four chambers of the heart can be easily visualized. Image credit: @Immunofluorescence on Instagram.



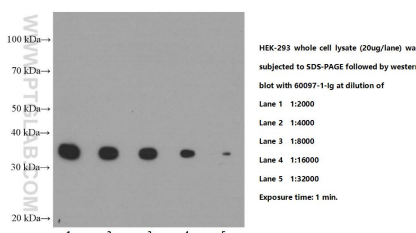
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 60097-1-Ig (PCNA antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



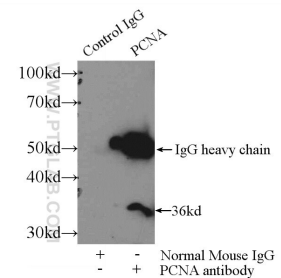
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 60097-1-Ig (PCNA antibody), at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



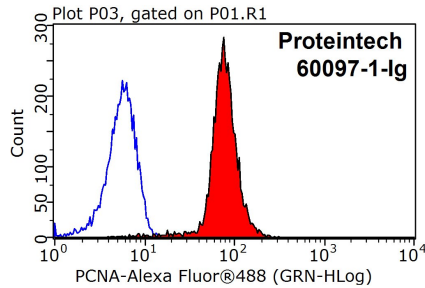
Western blot analysis of PCNA in various cell lines using Proteintech antibody 60097-1-Ig at a dilution of 1:10000 (exposed for 2 seconds) incubated at room temperature for 1.5 hours.



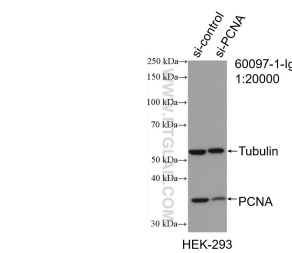
HEK-293 cells were subjected to SDS PAGE followed by western blot with 60097-1-Ig (PCNA Antibody) at various dilution incubated at room temperature for 1.5 hours.



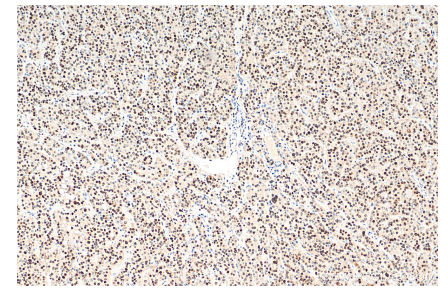
IP Result of anti-PCNA (IP:60097-1-Ig, 4ug; Detection:60097-1-Ig 1:300) with HepG2 cells lysate 3000ug.



1X10⁶ MCF-7 cells were stained with 0.2ug PCNA antibody (60097-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1500.



WB result of PCNA antibody (60097-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PCNA transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60097-1-Ig (PCNA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).