

PCNA Polyclonal Antibody

Catalog number: 10205-2-AP

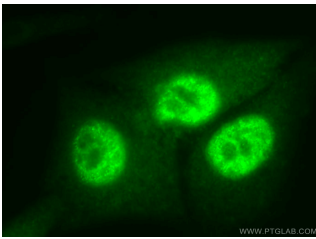
Size: 38 µg/150 µl

Source: Rabbit

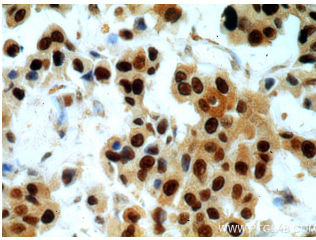
Isotype: IgG

Synonyms:

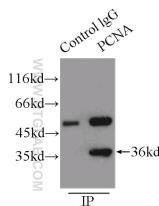
PCNA; Cyclin, PCNA



Immunofluorescent analysis of HepG2 cells, using PCNA antibody 10205-2-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG (green).



Immunohistochemical of paraffin-embedded human breast cancer using 10205-2-AP (PCNA antibody) at dilution of 1:50 (under 40x lens)



IP Result of anti-PCNA (IP:10205-2-AP, 3µg; Detection:10205-2-AP 1:1500) with MCF-7 cells lysate 2500µg.

Background

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. This antibody is a rabbit polyclonal antibody raised against an internal region of human PCNA.

Applications

Tested applications:	ELISA, IF, IP, WB, IHC, FC
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat, Zebrafish; other species not tested.
Cited species:	Human, mouse, rat
Calculated PCNA MW:	29 kDa/31 kDa
Observed PCNA MW:	36-38 kDa
Positive WB detected in	MCF7 cells, A431 cells, HEK-293 cells, HeLa cells, HepG2 cells, Jurkat cells, mouse liver tissue, mouse testis tissue, NIH/3T3 cells, Raji cells, rat liver tissue, rat testis tissue
Positive IP detected in	MCF-7 cells
Positive IHC detected in	Human breast cancer tissue, human stomach cancer tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HEK-293T cells
Recommended dilution:	WB: 1:1000-1:10000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:20-1:200 FC: N/A

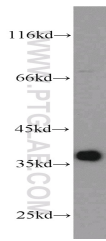
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

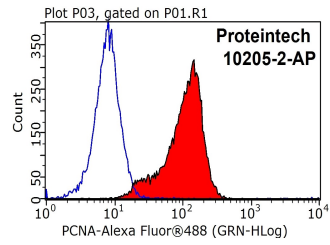
Immunogen:	Ag0277
GenBank accession number:	BC000491
Gene ID (NCBI):	5111
Full name:	Proliferating cell nuclear antigen

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



MCF7 cells were subjected to SDS PAGE followed by western blot with 10205-2-AP(PCNA antibody) at dilution of 1:2000



1X10⁶ HEK-293T cells were stained with .2ug PCNA antibody (10205-2-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.