

For Research Use Only

# PCNA Polyclonal antibody

Catalog Number: 24036-1-AP **4 Publications**



## Basic Information

**Catalog Number:**

24036-1-AP

**Size:**

150UL, Concentration: 247 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG7416

**GenBank Accession Number:**

BC000491

**GeneID (NCBI):**

5111

**Full Name:**

proliferating cell nuclear antigen

**Calculated MW:**

29 kDa/31 kDa

**Observed MW:**

36-38 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

IF 1:50-1:500

## Applications

**Tested Applications:**

IF, IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HEK-293 cells, HeLa cells, HepG2 cells, Jurkat cells, MCF-7 cells, mouse testis tissue, NIH/3T3 cells, Raji cells, rat liver tissue

**IP:** HEK-293 cells,

**IHC:** human breast cancer tissue, human gliomas tissue, human stomach cancer tissue

**IF:** human breast cancer tissue, HepG2 cells

## Background Information

The proliferating cell nuclear antigen (PCNA), a protein synthesized in early G1 and S phases of the cell cycle, functions in cell cycle progression, DNA replication and DNA repair. In early S phase, PCNA exhibits granular distribution and is absent from the nucleoli; however, in late S phase, it relocates to the nucleoli. PCNA exists in two basic forms: one involved in ongoing DNA replication, which localizes specifically to the nucleus, and a second, soluble form, not implicated in constant synthesis. Interestingly, the latter form degrades in the presence of organic solvents, rendering it undetectable by histological methods in tissues using organic fixatives, and thus also providing a method of visualizing only the synthesizing form. This antibody specifically reacts with the 36kd human PCNA protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bulbul Ahmmed	30483742	Int J Oncol	WB
Jorge Lopez-Tello	33157350	Placenta	IF
Shen Zhang	26963099	PLoS One	IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

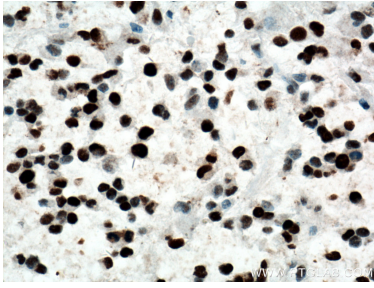
For technical support and original validation data for this product please contact:

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

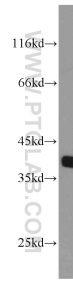
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

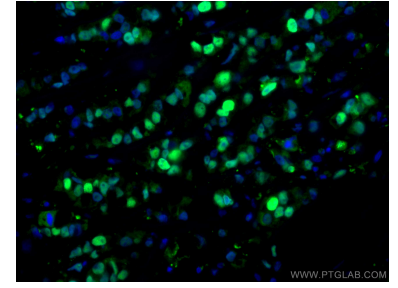
## Selected Validation Data



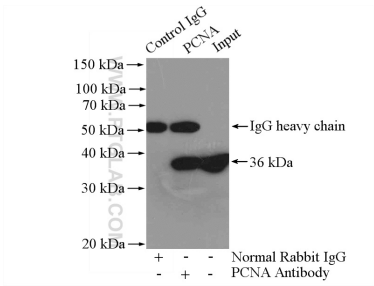
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 24036-1-AP (PCNA antibody) at dilution of 1:1600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



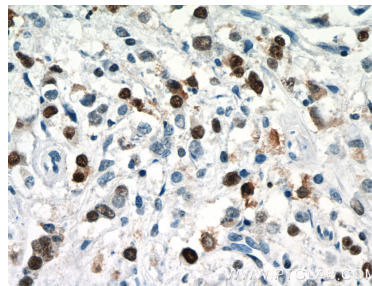
HEK-293 cells were subjected to SDS PAGE followed by western blot with 24036-1-AP (PCNA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 24036-1-AP (PCNA antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-PCNA (IP:24036-1-AP, 4ug; Detection:24036-1-AP 1:1000) with HEK-293 cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 24036-1-AP (PCNA Antibody) at dilution of 1:400 (under 40x lens).