

For Research Use Only

PCNA Polyclonal antibody

Catalog Number: 24036-1-AP

37 Publications



Basic Information

Catalog Number:

24036-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 247 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7416

GenBank Accession Number:

BC000491

GeneID (NCBI):

5111

UNIPROT ID:

P12004

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: 1:2000-1:14000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:20-1:200

IF-P: 1:50-1:500

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, rabbit, zebrafish

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

IP: HEK-293 cells,

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

IF-P: human breast cancer tissue,

IF/ICC: 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
Lingbin Qi	36339749	Heliyon	WB, IF
Bulbul Ahmmed	30483742	Int J Oncol	WB
Ning Huang	36435201	Biochem Pharmacol	WB, IF

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°C storage

*** 20ul sizes contain 0.1% BSA

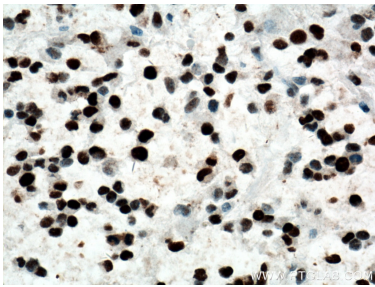
For technical support and original validation data for this product please contact:

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

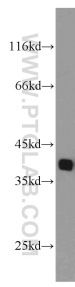
E: proteintech@ptglab.com
W: ptglab.com

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

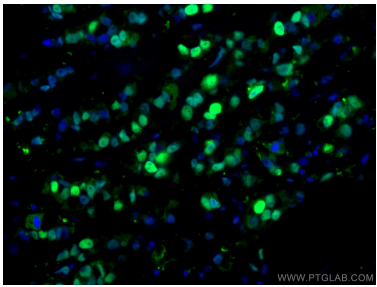
Selected Validation Data



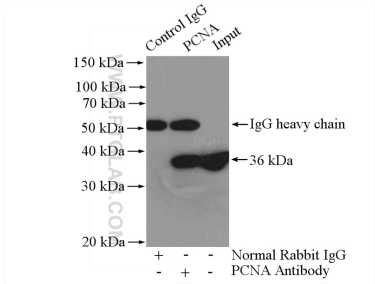
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 24036-1-AP (PCNA antibody) at dilution of 1:1600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



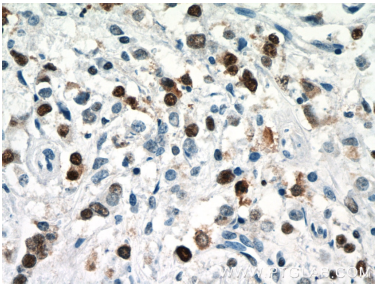
HEK-293 cells were subjected to SDS PAGE followed by western blot with 24036-1-AP (PCNA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



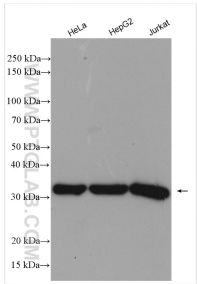
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 24036-1-AP (PCNA antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



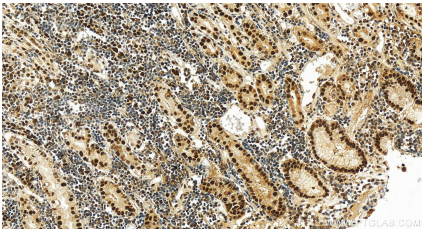
IP result of anti-PCNA (IP:24036-1-AP, 4ug; Detection:24036-1-AP 1:1000) with HEK-293 cells lysate 2000ug.



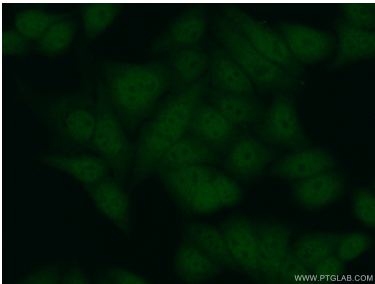
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 24036-1-AP (PCNA Antibody) at dilution of 1:400 (under 40x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 24036-1-AP (PCNA antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 24036-1-AP (PCNA antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 24036-1-AP (PCNA antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).