

For Research Use Only

# Biotin-conjugated PCNA Monoclonal antibody



Catalog Number: Biotin-60097

1 Publications

## Basic Information

<b>Catalog Number:</b> Biotin-60097	<b>GenBank Accession Number:</b> BC000491	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 5111	<b>CloneNo.:</b> 10D10E11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P12004	<b>Recommended Dilutions:</b> IHC 1:1000-1:4000
<b>Isotype:</b> IgG1	<b>Full Name:</b> proliferating cell nuclear antigen	
<b>Immunogen Catalog Number:</b> AG7416	<b>Calculated MW:</b> 29 kDa/31 kDa	
	<b>Observed MW:</b> 36-38 kDa	

## Applications

<b>Tested Applications:</b> IHC	<b>Positive Controls:</b> IHC : human gliomas tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, pig, rat	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Proliferating Cell Nuclear Antigen, commonly known as PCNA, is a protein that acts as a processivity factor for DNA polymerase  $\delta$  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-aprimidinic (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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Huizhen Wang	34789720	Cell Death Dis	WB

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

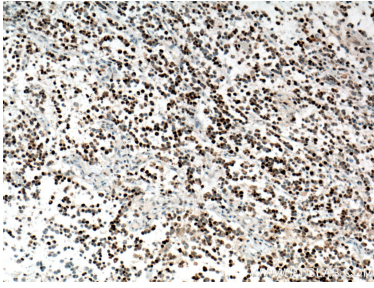
T: 4006900926

E: Proteintech-CN@ptglab.com

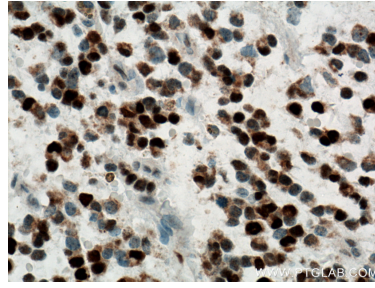
W: ptgcn.com

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## Selected Validation Data



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



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using Biotin-60097 (PCNA antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).