

For Research Use Only

Biotin-conjugated PCNA Monoclonal antibody

Catalog Number: Biotin-60097

Featured Product

2 Publications



Basic Information

Catalog Number: Biotin-60097	GenBank Accession Number: BC000491	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 5111	CloneNo.: 10D10E11
Source: Mouse	UNIPROT ID: P12004	Recommended Dilutions: IHC 1:1000-1:4000
Isotype: IgG1	Full Name: proliferating cell nuclear antigen	
Immunogen Catalog Number: AG7416	Calculated MW: 29 kDa/31 kDa	
	Observed MW: 36-38 kDa	

Applications

Tested Applications: IHC	Positive Controls: IHC : human gliomas tissue,
Cited Applications: WB	
Species Specificity: human, mouse, pig, 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	

Background Information

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Huizhen Wang	34789720	Cell Death Dis	WB
Jialin Chen	39512422	Bioact Mater	WB

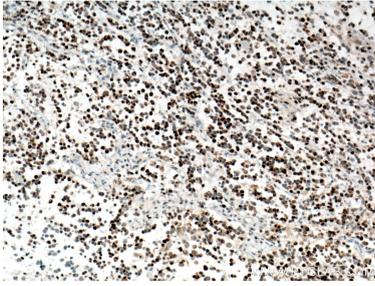
Storage

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

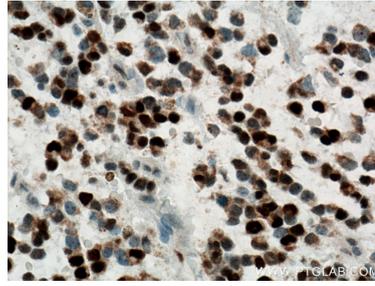
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 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)).