

For Research Use Only

HRP-conjugated PCNA Monoclonal antibody



Catalog Number:HRP-60097

1 Publications

Basic Information

Catalog Number: HRP-60097	GenBank Accession Number: BC000491	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 5111	CloneNo.: 10D10E11
Source: Mouse	UNIPROT ID: P12004	Recommended Dilutions: WB 1:5000-1:50000
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: WB	Positive Controls: WB : HEK-293 cells,
Cited Applications: WB	
Species Specificity: human, mouse, pig, rat	
Cited Species: mouse	

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
Ha T Nguyen	36468795	Mol. Reprod. Dev.	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:

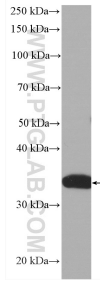
T: 4006900926

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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



HEK-293 cells were subjected to SDS PAGE followed by western blot with HRP-60097 (PCNA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.