

PCNA Monoclonal ANTIBODY

Catalog Number: 60097-1-Ig

17 Publications

Basic Information

Catalog Number:
60097-1-Ig

Size:
75 µg/150 µl

Source:
Mouse

Isotype:
IgG1

Purification Method:
Protein G purification

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 kDa

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 µg for IP and 1:200-1:1000 for WB

IHC 1:500-1:2000

IF 1:50-1:500

Applications

Tested Applications:

FC, IF, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, pig, rat

Cited Species:

human, mouse, pig, rabbit

Note: 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

IP : HepG2 cells;

IHC : human gliomas tissue; mouse ovary tissue, human breast cancer tissue

IF : HepG2 cells;

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 (PMD: 1358458).

Notable Publications

Author	Pubmed ID	Journal	Application
Fei Han	29104493	Int J Biol Sci	WB,IHC
Chunjie Sheng	30348973	Nat Commun	WB
Wei Gao	28607932	Biomed Res Int	WB,IHC

Storage

Storage:

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

Storage Buffer:

PBS with 0.1% 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:

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