For Research Use Only

PCNA Recombinant antibody

Catalog Number:81302-6-RR

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Basic Information

Catalog Number:
81302-6-RR

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0277

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 kDa

Purification Method:
Protein A purfication

CloneNo.:
240306B9

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human, mouse, rat

Positive Controls:

WB : HeLa cells, HEK-293 cells, Jurkat cells, A431 cells, MCF-7 cells, NIH/3T3 cells, HSC-T6 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 (PMID: 1358458).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% 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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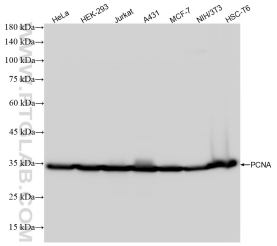
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81302-6-RR (PCNA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.