

# PCNA Monoclonal antibody

Catalog Number: 65034-1-Ig

## Basic Information

**Catalog Number:**

65034-1-Ig

**Size:**

150ul , Concentration: 667 µg/ml by Bradford method using BSA as the standard;

**Source:**

Mouse

**Isotype:**

IgG

**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:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human, mouse

**Positive Controls:**

WB : 293 cells,

## Background Information

PCNA, also named as Cyclin, belongs to the PCNA family. 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. The PCNA protein has been highly conserved during evolution; the deduced amino acid sequences of rat and human differ by only 4 of 261 amino acids. This antibody is a mouse monoclonal antibody raised against recombinant protein of human PCNA. The calculated molecular weight of PCNA is 29 kDa, but modified PCNA is 36kDa PMID: 1358458 .

## Storage

**Storage:**

Store at 2-8°C.

**Storage Buffer:**

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

**\*\*\* 20ul sizes contain 0.1% BSA**

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

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