

# HRP-conjugated PCNA Monoclonal Antibody

catalog number: AN00472HP

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

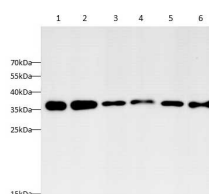
## Description

<b>Reactivity</b>	Human;Mouse;Rat
<b>Immunogen</b>	Recombinant human PCNA protein expressed by E.coli
<b>Host</b>	Mouse
<b>Isotype</b>	IgG2a
<b>Clone</b>	9C6
<b>Purification</b>	Protein A/G Purification
<b>Conjugation</b>	HRP
<b>buffer</b>	PBS with 0.05% proclin 300, 1% protective protein and 50% glycerol,pH7.4

## Applications

<b>WB</b>	1:2500-1:5000
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## Data



Western blot with HRP-conjugated PCNA Monoclonal Antibody at dilution of 1:5000. lane 1: Raji whole cell lysate, lane 2: HepG2 whole cell lysate, lane 3: HL-60 whole cell lysate, lane 4: Raw264.7 whole cell lysate, lane 5: NIH/3T3 whole cell lysate, lane 6: PC-12 whole cell lysate

**Observed-MV:29 kDa**

**Calculated-MV:29 kDa**

## Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. A void freeze / thaw cycles. Protected from prolonged exposure to light.
<b>Shipping</b>	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

## Background

Auxiliary protein of DNA polymerase delta and epsilon, is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. Induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. Has to be loaded onto DNA in order to be able to stimulate APEX2. Plays a key role in DNA damage response (DDR) by being conveniently positioned at the replication fork to coordinate DNA replication with DNA repair and DNA damage tolerance pathways. Acts as a loading platform to recruit DDR proteins that allow completion of DNA replication after DNA damage and promote postreplication repair: Monoubiquitinated PCNA leads to recruitment of translesion (TLS) polymerases, while 'Lys-63'-linked polyubiquitination of PCNA is involved in error-free pathway and employs recombination mechanisms to synthesize across the lesion.

## For Research Use Only