# HRP-conjugated PCNA Monoclonal Antibody

**catalog number: AN00472HP**

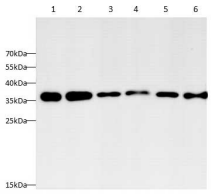
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

| | |
|---|---|
| **Reactivity** | Human;Mouse;Rat |
| **Immunogen** | Recombinant human PCNA protein expressed by E.coli |
| **Host** | Mouse |
| **Isotype** | IgG2a |
| **Clone** | 9C6 |
| **Purification** | Protein A/G Purification |
| **Buffer** | PBS with 0.05% Proclin300, 1% protective protein and 50% glycerol, pH7.4 |

| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:2500-1:5000 |

## 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-MW:29 kDa**

**Calculated-MW:29 kDa**

## Preparation & Storage

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

## Background


Toll-free: 1-888-852-8623
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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.


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