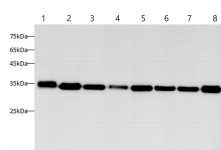


## PCNA Monoclonal Antibody

catalog number: AN005350L

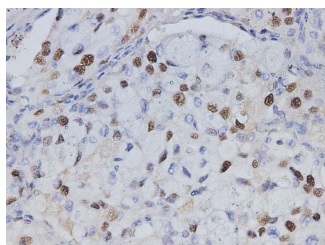
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

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>	Unconjugated
<b>Buffer</b>	PBS with 0.05% Proclin300, 1% protective protein and 50% glycerol, pH7.4
Applications	
<b>WB</b>	1:2000-1:4000
<b>IP</b>	4ug/sample
<b>IHC</b>	1:200-1:400
Data	

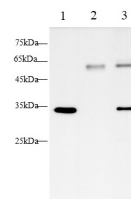


Western blot with Anti PCNA Monoclonal Antibody at dilution of 1:3000. Lane 1: HT-29 cell lysate, Lane 2: Jurkat cell lysate, Lane 3: THP-1 cell lysate, Lane 4: Mouse spleen tissue lysate, Lane 5: Raw264.7 cell lysate, Lane 6: C6 cell lysate, Lane 7: HeLa cell lysate, Lane 8: NIH/3T3 cell lysate.

**Observed-MW:33 kDa**  
**Calculated-MW:29 kDa**

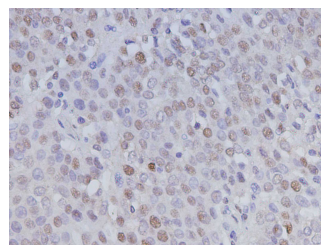


Immunohistochemistry of paraffin-embedded Human lung cancer using PCNA Monoclonal Antibody at dilution of 1:200.



Immunoprecipitation analysis of 40ug extracts of THP-1 cell using 4μg PCNA Monoclonal Antibody. Western blot was performed from the immunoprecipitate using PCNA Monoclonal Antibody at a dilution of 1:1000. Lane 1: input, Lane 2: Mouse IgG Isotype Control, Lane 3: anti-PCNA Monoclonal antibody.

**Observed-MW:33 kDa**  
**Calculated-MW:29 kDa**



Immunohistochemistry of paraffin-embedded Human ovary cancer using PCNA Monoclonal Antibody at dilution of 1:200.

### Preparation & Storage

**Storage** Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

### For Research Use Only

Tel: 400-999-2100

Web: [www.elabscience.cn](http://www.elabscience.cn)

Email: [techsupport@elabscience.cn](mailto:techsupport@elabscience.cn)

**Shipping**

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.