

## Anti-PCNA Antibody (6E487), Nuclear Loading Control

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 29 kDa. Actual: 35 kDa.
Clone:	6E487
Purification:	Protein G purified

### Applications

1. Blank control: Jurkat.

Primary Antibody (green line): Mouse Anti-PCNA antibody (TMAB-10073)

Dilution: 1:50;

Secondary Antibody: Goat anti-mouse IgG-FITC

Dilution: 0.5 µg/Test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

2. Paraformaldehyde-fixed, paraffin embedded Rat Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

3. Paraformaldehyde-fixed, paraffin embedded Human Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

6. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

7. Paraformaldehyde-fixed, paraffin embedded Rat Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

8. Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in

Verified Activity:

sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

9. Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

10. Paraformaldehyde-fixed, paraffin embedded Rat Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

11. Paraformaldehyde-fixed, paraffin embedded Rat Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

12. Paraformaldehyde-fixed, paraffin embedded Human Liver Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

13. Paraformaldehyde-fixed, paraffin embedded Human Glioma; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

14. Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

15. Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

16. Paraformaldehyde-fixed, paraffin embedded Human Duodenum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

17. Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA (Nuclear Loading Control) Monoclonal Antibody, Unconjugated (TMAB-10073) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.

18. 25 µg total protein per lane of various lysates (see on figure) probed with PCNA monoclonal antibody, unconjugated (TMAB-10073) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.

Application: WB,IHC-P,IHC-Fr,IF,FCM

Recommended WB: 1:5000-10000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1:50-200

### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

---

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human PCNA

Antigen Species: Human

Gene ID: 5111

Uniprot ID: P12004

---

### Research Background

Proliferating cell nuclear antigen (PCNA) is a 28kDa nuclear protein associated with the cell cycle, a nuclear protein vital for cellular DNA synthesis. Proliferating cell nuclear antigen was originally identified by immunofluorescence as a nuclear protein whose appearance correlated with the proliferate state of the cell. PCNA is required for replication of DNA in vitro and has been identified as the auxiliary protein (cofactor) for DNA polymerase delta. The anti-PCNA antibodies react with the nuclei of proliferating cells. PCNA is essential for cellular DNA synthesis and is also required for the in vitro replication of simian virus 40 (SV40) DNA where it acts to coordinate leading and lagging strand synthesis at the replication fork. The PCNA protein may fulfil several separate roles in the cell nucleus associated with changes in its antigenic structure.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481