

Anti-PCNA Polyclonal Antibody 2

Product Details

| | |
|-------------------|--|
| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat(predicted: Cow,Rabbit,Sheep) |
| Molecular Weight: | Theoretical: 29 kDa. Actual: 35 kDa. |
| Purification: | Protein A purified |

Applications

1. sample: A549 cells ((blue) Ice-cold 70% ethanol was added and the cells were incubated for overnight at 4°C. and then resuspended in ice-cold 90% methanol for 30 min on ice.)

Primary Antibody: Rabbit Anti-PCNA antibody (TMAB-01342) (green)

Isotype Control Antibody: Rabbit IgG (orange)

Secondary Antibody: f(ab/)₂ fragment goat anti-rabbit IgG-FITC (white blue)

2. Blank control (blue line): U251 (blue).

Primary Antibody (green line): Rabbit Anti-PCNA antibody (TMAB-01342)

Dilution: 3 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution: 1 µg/test.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature.

3. 25 µg total protein per Lane of various lysates probed with PCNA polyclonal antibody, unconjugated (TMAB-01342) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.

4. Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

6. Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

7. Paraformaldehyde-fixed, paraffin embedded Human Liver Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

8. Paraformaldehyde-fixed, paraffin embedded Human Glioma; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody,

Verified Activity:

Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

9. Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

10. Paraformaldehyde-fixed, paraffin embedded Human Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

11. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

12. Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

13. Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:800 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

14. Paraformaldehyde-fixed, paraffin embedded Mouse Testis; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

15. Paraformaldehyde-fixed, paraffin embedded Rat Testis; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

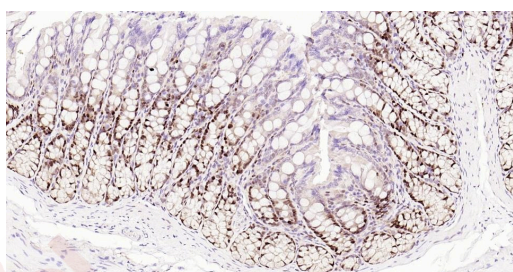
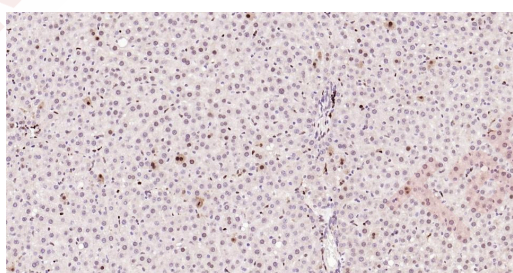
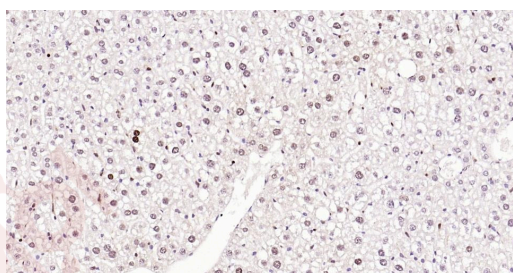
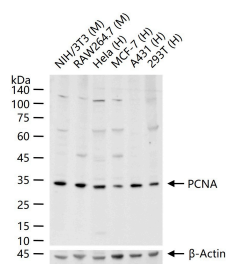
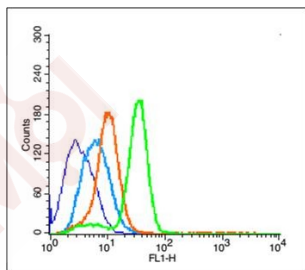
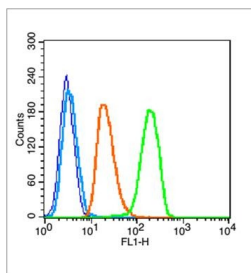
16. Paraformaldehyde-fixed, paraffin embedded Mouse Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

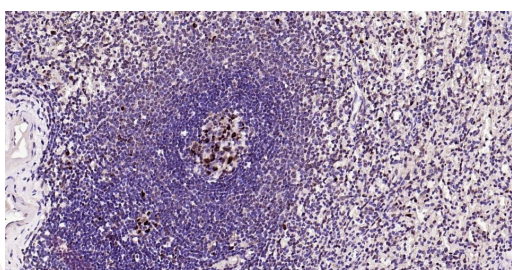
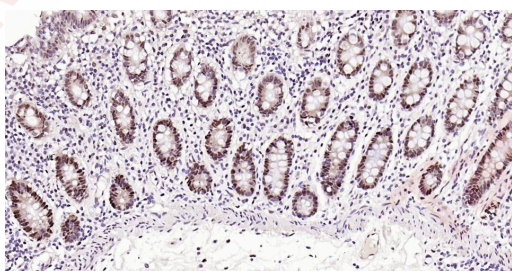
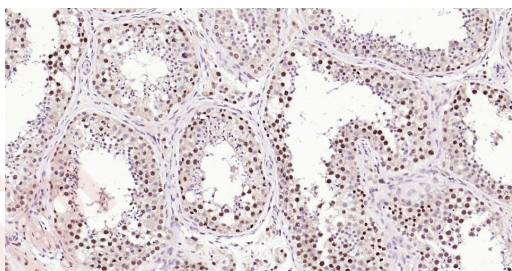
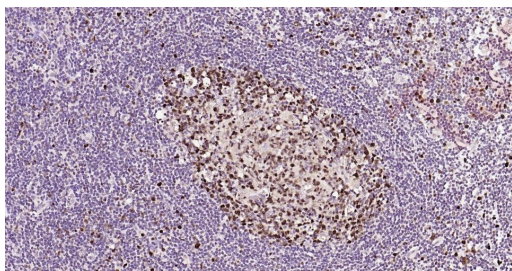
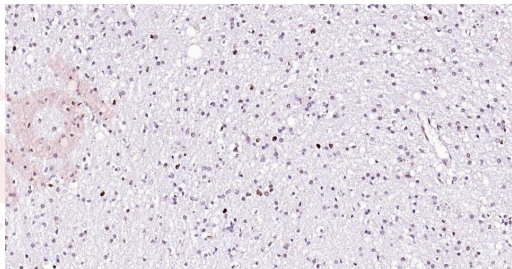
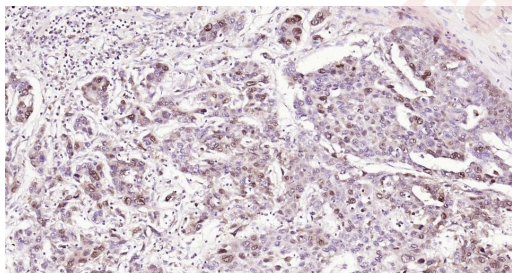
17. Paraformaldehyde-fixed, paraffin embedded Rat Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

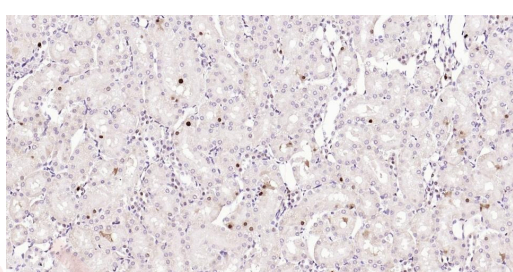
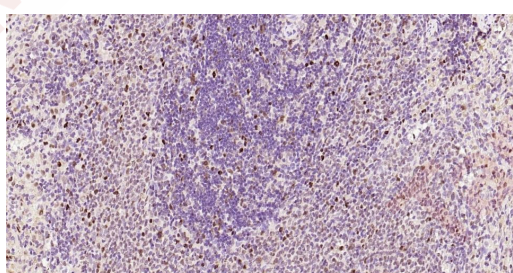
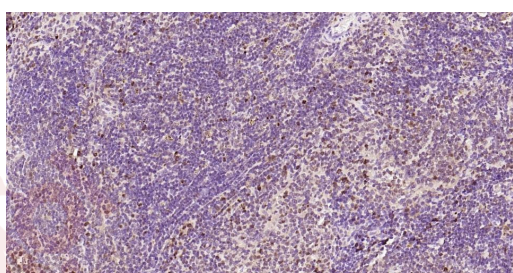
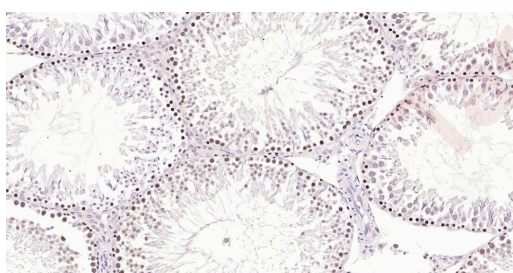
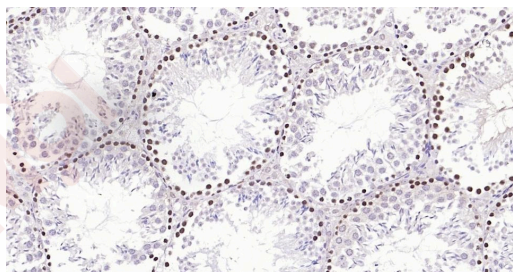
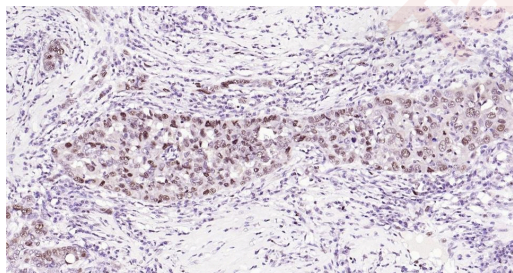
18. Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

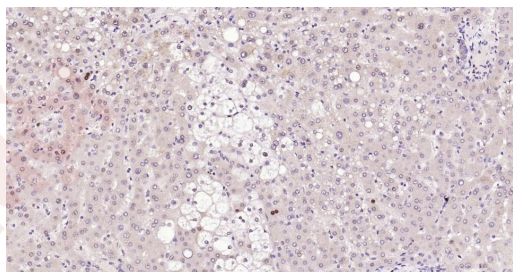
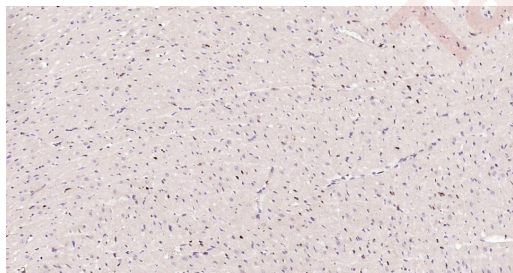
19. Paraformaldehyde-fixed, paraffin embedded Rat Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

20. Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PCNA Polyclonal Antibody, Unconjugated (TMAB-01342) at 1:500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.









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

Recommended WB: 1:500-2000; IHC-P: 1:200-800; IHC-Fr: 1:200-800; IF: 1:200-800; FCM: 1µg/Test

Properties

Stability & Storage: 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

Synonyms: ATLD2;proliferating cell nuclear antigen

Biology Area: Cell division,Tumor antigens,Markers,DNA / RNA binding,DNA Synthesis,Methylated DNA Binding,PCNA,Replication

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

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