

Anti-PCNA Antibody (8Q986)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8Q986
Purification:	Protein A

Applications

Verified Activity:	<p>1. Anti-PCNA rabbit polyclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none">-Lane A: HepG2 Whole Cell Lysate.-Lane B: MCF7 Whole Cell lysate.-Lysates/proteins at 30 µg per lane.-Secondary-Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.-Developed using the ECL technique.-Performed under reducing conditions.-Predicted band size:29 kDa.-Observed band size:35 kDa. <p>2. PCNA was immunoprecipitated using:</p> <ul style="list-style-type: none">-Lane A:0.5 mg HepG2 Whole Cell Lysate.-Lane B:0.5 mg MCF7 Whole Cell Lysate.-4 µL anti-PCNA rabbit monoclonal antibody and 60 µg of Immunomagnetic beads Protein A/G.-Primary antibody:-Anti-PCNA rabbit monoclonal antibody, at 1:100 dilution.-Secondary antibody:-Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.-Developed using the ECL technique.-Performed under reducing conditions.-Predicted band size: 29 kDa.-Observed band size:35 kDa
Application:	ELISA,IP,WB
Recommended	WB: 1:500-1:2000; ELISA: 1:5000-1:10000; IP: 1-5 µL/mg of lysate

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. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human PCNA Protein (TMPY-02543)

Antigen Species: Human

Synonyms: proliferating cell nuclear antigen;ATLD2

Research Background

Proliferating Cell Nuclear Antigen (PCNA) is a protein only expressed in normal proliferate cells and cancer cells. It is central to both DNA replication and repair. One of the well-established functions for PCNA is its role as the processivity factor for DNA polymerase delta and epsilon. PCNA tethers the polymerase catalytic unit to the DNA template for rapid and processive DNA synthesis. Two forms of PCNA exist in cells: (i) a detergent-insoluble trimeric form stably associated with the replicating forks during S phase and (ii) a soluble form in quiescent cells in G1 and G2 phases. PCNA forms a toroidal trimer in S phase with replication factor-C (RF-C) and DNA in an ATP-dependent manner and enables the loading of DNA polymerase delta and epsilon onto the complex. The close association of PCNA with kinase complexes involved in cell cycle machinery indicates that PCNA has a regulatory role in cell cycle progression. PCNA also participates in the processing of branched intermediates that arise during the lagging strand DNA synthesis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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