



Datasheet for ABIN129712
anti-PCNA antibody (Internal Region)



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2 Images

Overview

Quantity:	100 µg
Target:	PCNA
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PCNA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an of human PCNA protein.
Isotype:	IgG
Cross-Reactivity:	Monkey, Dog (Canine), Mouse (Murine), Rat (Rattus), Sheep (Ovine), Chicken, Fish, Xenopus laevis
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	PCNA
Alternative Name:	PCNA (PCNA Products)

Target Details

Background: The proliferating cell nuclear antigen (PCNA) is an auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the processibility of DNA polymerase during elongation of the leading strand. PCNA is expressed in the nucleus of all proliferating cells and is pivotal for DNA synthesis and cell cycle progression. In response to DNA damage, PCNA is mono-ubiquitinated and is involved in mismatch-provoked excision. PCNA is a useful marker for DNA synthesis and is highly conserved among most species. Synonyms: PCNA, proliferating cell nuclear antigen, cyclin

Gene ID: 5111, 33239451

UniProt: [P12004](#)

Pathways: [Telomere Maintenance](#), [DNA Damage Repair](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Synthesis of DNA](#), [Autophagy](#)

Application Details

Application Notes: This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 29-36 kDa in size corresponding to PCNA protein by western blotting in the appropriate cell lysate or extract.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.69 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

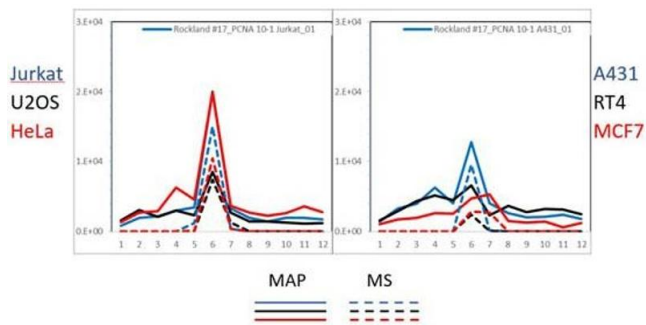
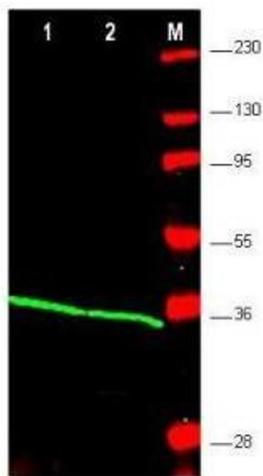


Image 1. PAGE-MAP (microsphere affinity proteomics) of Rabbit Anti-PCNA Antibody (ABIN129712). Antibody array western blot binding of gelfree size separated fractions of multiple lysates (solid lines) and shotgun mass spectroscopy identification (dashed lines) of the target band run in parallel correlate confirming the specificity of this antibody against PCNA



Western Blotting

Image 2. Western blot using affinity purified anti-PCNA antibody shows detection of PCNA protein in HEK293 (lane 1) and Jurkat (lane 2) whole cell extracts. Approximately 25 ug of lysate was loaded per lane onto a 4-20% gradient gel followed by transfer to nitrocellulose. After blocking, the membrane was incubated with the primary antibody diluted to 1:1000. The membrane was washed and reacted with a 1:10,000 dilution of 800 Conjugated Affinity Purified Goat-anti-Rabbit IgG [H&L] MX10 (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers indicated at the right (lane M, 700 nm channel, red). Other detection systems will yield similar results.