

Datasheet for 600-401-887**PCNA Antibody****Overview**

Description:	Anti-Alga PCNA (RABBIT) Antibody - 600-401-887
Item No.:	600-401-887
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Algae
Host Species:	Rabbit

Product Details

Background:	PCNA, or Proliferating Cell Nuclear Antigen, is an auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. PCNA is a nuclear protein.
Synonyms:	rabbit anti-PCNA antibody, Proliferating cell nuclear antigen
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PCNA
Reactivity:	Algae
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity-purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 50-75 of Isochrysis galbana PCNA.

Purity/Specificity: This affinity purified antibody is directed against algal PCNA. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest that this antibody would react with PCNA from the following alga sources: *Prorocentrum minimum*, *Tetraselmis chui*, *Pleurochrysis carterae* and *Isochrysis galbana*. Expect partial reactivity with PCNA from other alga sources as well as carrot, tobacco, peas, soybean and rice based on partial protein sequence homology. Species that have been tested but yielded no positive results are *Pfiesteria piscicida*, *Emiliana huxleyi*, *Akashiwo sanguinea*, *Rhodomonas* sp., *Karlodinium micrum*, and *Skletonema costatum*. Reactivity with PCNA from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q9LD36](#)
- [NCBI - 7715035](#)

Application Details

Tested Applications: ELISA, WB

Application Note: 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 at ~29 kDa in size corresponding to PCNA by western blotting in the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:50,000

IP: 1:100

WB: 1:5,000 - 1:32,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.42 mg/mL by UV absorbance at 280 nm

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

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

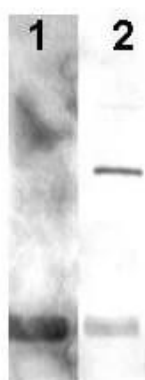
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot using Rockland's Affinity Purified anti-Alga PCNA antibody shows detection of a predominant band at ~29 kDa corresponding to PCNA (lane 2). Peptide competition effectively eliminates specific band reactivity (lane 1). For peptide competition, the antibody was pre-incubated with 100 µg (excess) of the peptide for 2h at 37° C followed by overnight incubation at 4 °C with 100 µg (excess) of the peptide, followed by a brief centrifugation and then reaction with the membrane. Each lane contains a lysate from 105 cells from the marine dinoflagellate *Prorocentrum* minimum. Cells were separated by SDS-PAGE and transferred onto nitrocellulose using standard techniques. After blocking the membrane was probed with the primary antibody diluted to 1:200. Incubation was followed by washes and reaction with HRP Gt-a-Rabbit IgG [H&L] MX (611-103-122). Detection was by ECL using a 30 sec exposure time. Other detection systems will yield similar results. Personnel Communication. S. Lin, U.Conn.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.