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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, Emiliania 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

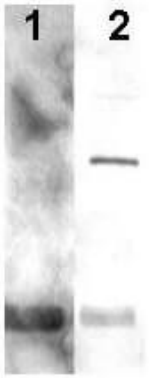
Physical State:	Liquid (sterile filtered)
Concentration:	1.42 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

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.

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