PCNA Antibody

Rabbit Polyclonal
Antigen Affinity Purified

Catalog No. A300-276A
Lot No. A300-276A-1

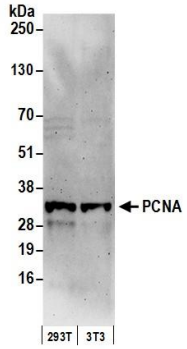
Protein ID P12004
GeneID 5111

APPLICATIONS	WB, IP, IHC, F
SPECIES REACTIVITY	Human, Mouse
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Rat, Chicken and Bovine
AMOUNT	100 µl
CONCENTRATION	1000 µg/ml
STORAGE/SHELF LIFE	2 - 8° C / 1 year from date of receipt
PHYSICAL STATE	Liquid
BUFFER	Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
ISOTYPE	IgG
ORIGIN	USA
PRODUCTION PROCEDURES	Antibody was affinity purified using an epitope specific to PCNA immobilized on solid support. The epitope recognized by A300-276A maps to a region between residues 75 and 125 of human proliferating cell nuclear antigen using the numbering given in SwissProt entry P12004 (GeneID 5111). Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.
APPLICATIONS	Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

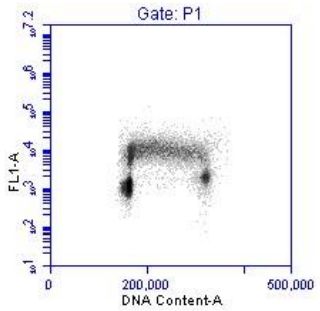
Western Blot	1:1,000 - 1:10,000
Immunoprecipitation	2 - 5 µg/mg lysate
Immunohistochemistry	1:2,000 - 1:10,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
Flow Cytometry	0.03 µg per 1 X 10^6 cells in a 150 µl volume

APPLICATION NOTES	Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-20% SDS-PAGE (link to IP-western blot protocol in Additional Info section below). Western blot of lysates performed using standard western blot reagents and 4-20% SDS-PAGE.
IHC HUMAN CONTROLS	Breast Carcinoma, Colon Carcinoma, Ovarian Carcinoma, Prostate Carcinoma, Stomach Adenocarcinoma, Testicular Seminoma
IHC MOUSE CONTROLS	Squamous Cell Carcinoma, Teratoma
ADDITIONAL INFO	https://www.bethyl.com/product/A300-276A Use the link above to view SDS, a current list of citations, and other product specific information. IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB

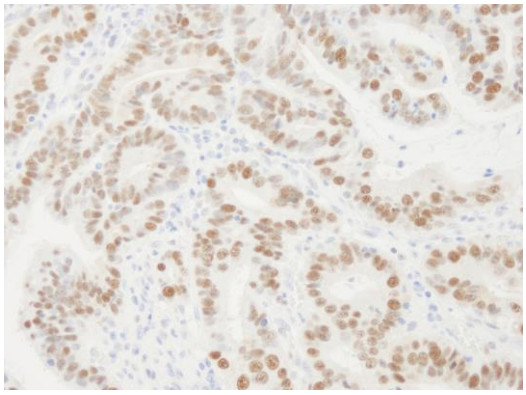
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.
Eric McIntush, PhD | Chief Scientific Officer Date: June 21, 2019



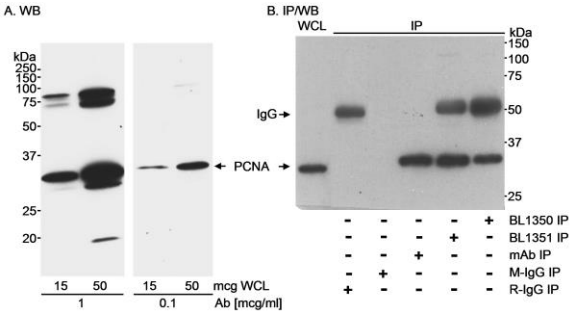
Detection of human and mouse PCNA by western blot. *Samples:* Whole cell lysate (50 µg) from HEK293T and mouse NIH 3T3 cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-PCNA antibody A300-276A (lot A300-276A-1) used for WB at 0.1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 3 minutes.



Detection of PCNA Versus DNA Content. Asynchronous Jurkat cells were fixed and permeabilized in a sequential treatment of FACS buffer (PBS, 0.5% triton-X-100, 0.5mM EDTA, 1% BSA) and 100% methanol. 1 X10^6 cells were stained with 0.03 µg anti-PCNA [A300-276A]. Secondary detection was performed with FITC conjugated goat F(ab')2 anti-rabbit antibody [A120-114F], and DNA stained with



Detection of human PCNA by immunohistochemistry. *Sample:* FFPE section of human stomach carcinoma. *Antibody:* Affinity purified rabbit anti- PCNA (Cat. No. A300-276A Lot1) used at a dilution of 1:10,000 (0.1 µg/ml). *Detection:* DAB



Detection of human PCNA by western blot and immunoprecipitation. *Samples:* A. Whole cell lysate (WCL) from A-431 cells. B. WCL (500 µg for IP; 30 µg for WCL lane) from MDA-MB-468 cells. *Antibodies:* A. Affinity purified rabbit anti-PCNA antibody BL1350 (Cat. No. A300-276A) used at the indicated concentrations for WB. B. PCNA was immunoprecipitated using BL1350, BL1351 (Cat. No. A300-277A) or a mouse monoclonal antibody to PCNA (mAb). Control mock IP was performed using normal mouse IgG (M-IgG) and normal rabbit IgG (R-IgG). immunoprecipitatesd PCNA was blotted using a mixture of BL1350 and BL1351 (each at 1 µg/ml). *Detection:* Chemiluminescence with an exposure time of 2 minutes (A) or 5 seconds (B).