

Product Datasheet

PCNA Antibody - BSA Free

NB100-456

Unit Size: 100 ul

Store at 4C. Do not freeze.

www.novusbio.com



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Publications: 7

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NB100-456

PCNA Antibody - BSA Free

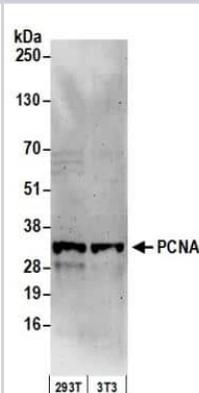
Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description	
Description	Novus Biologicals Rabbit PCNA Antibody - BSA Free (NB100-456) is a polyclonal antibody validated for use in IHC, WB, Flow and IP. Anti-PCNA Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5111
Gene Symbol	PCNA
Species	Human, Mouse
Marker	Proliferation Marker
Immunogen	The immunogen this antibody was made to, maps to a region between residues 75-125 of human proliferating cell nuclear antigen using the SwissProt entry P12004 (GeneID 5111).

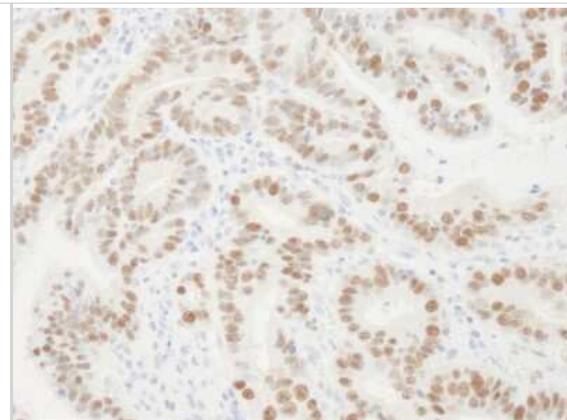
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:10000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:2000 - 1:10000, Immunoprecipitation 2-5 ug/mg lysate, Immunohistochemistry-Paraffin 1:2000 - 1:10000
Application Notes	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

Images

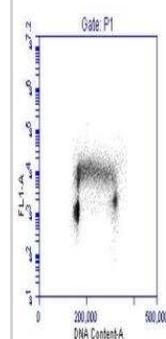
Western Blot: PCNA Antibody [NB100-456] - Detection of Human and Mouse PCNA by Western Blot. Samples: Whole cell lysate (50 ug) from 293T and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-PCNA antibody NB100-456 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



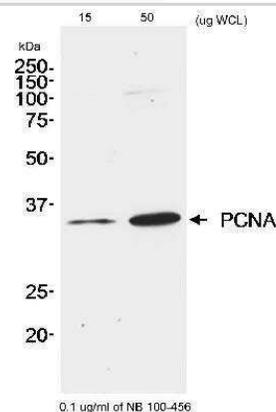
Immunohistochemistry: PCNA Antibody [NB100-456] - Sample: FFPE section of human stomach carcinoma. Antibody: Affinity purified rabbit anti- PCNA used at a dilution of 1:10,000 (0.1ug/ml). Detection: DAB



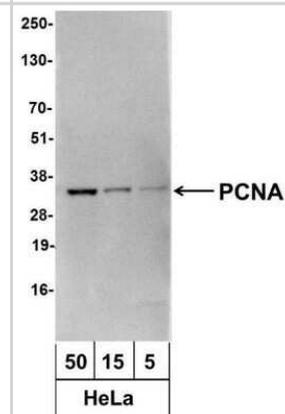
Flow Cytometry: PCNA Antibody [NB100-456] - Detection of PCNA Versus DNA Content. Asynchronous Jurkat cells were fixed and permeabilized in a sequential treatment of FACS buffer (PBS, 0.5% triton-X-100, 0.5mM EDTA, 1% BSA) and 100% methanol. 1 X10⁶ cells were stained with 0.03 ug anti-PCNA . Secondary detection was performed with FITC conjugated Goat F(ab')₂ anti-rabbit antibody], and DNA stained with PI.



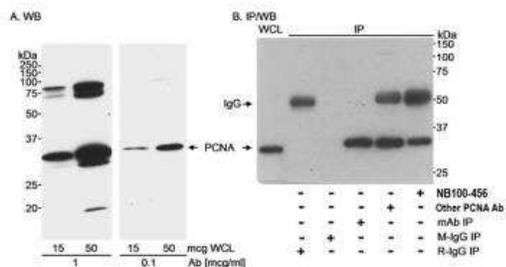
Western Blot: PCNA Antibody [NB100-456] - A431 whole cell lysates



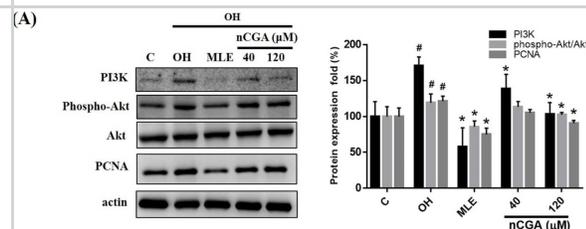
Western Blot: PCNA Antibody [NB100-456] - Analysis using the Biotin conjugate of NB100-456. Detection of HeLa (50, 15, and 5 ug). Antibody used at 1.0 ug/ml. Detection: Streptavidin-HRP and chemiluminescence with an exposure time of 3 seconds.



Immunoprecipitation: PCNA Antibody [NB100-456] - Detection of human PCNA by western blot and immunoprecipitation. Samples: A. Whole cell lysate (WCL) from A-431 cells. B. WCL (500 ug for IP; 30 ug for WCL lane) from MDA-MB-468 cells. Antibodies: A. Affinity purified rabbit anti-PCNA antibody NB100-456 used at the indicated concentrations for WB. B. PCNA was immunoprecipitated using another a mouse monoclonal antibody to PCNA (mAb). Control mock IP was performed using normal mouse IgG (M-IgG) and normal rabbit IgG (R-IgG). immunoprecipitated PCNA was blotted using NB100-456 (1 ug/ml). Detection: Chemiluminescence with an exposure time of 2 minutes (A) or 5 seconds (B).



MLE and nCGA reduced the expression of proliferation-related proteins in diabetic cultured VSMCs. (A) The levels of PI3K, p-Akt, and PCNA in OH-treated A7r5 cells were notably increased under OH conditions and notably decreased after treatment with nCGA (40 and 120 μ M). (B) In OH-stimulated A7r5 cells, the levels of Ras and p-ERK were increased, and OH-induced upregulation was nullified by nCGA. The quantitative data are presented as the mean \pm SD from a minimum of three independent experiments. # $p < 0.05$ as compared to the C (control). * $p < 0.05$ as compared to the OH group. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35893859>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Chakrabarti J, Holokai L, Syu L et al. Hedgehog signaling induces PD-L1 expression and tumor cell proliferation in gastric cancer. *Oncotarget* 2018-12-21 [PMID: 30647844]

Yang TY, Wu YL, Yu MH et al. Mulberry Leaf and Neochlorogenic Acid Alleviates Glucolipotoxicity-Induced Oxidative Stress and Inhibits Proliferation/Migration via Downregulating Ras and FAK Signaling Pathway in Vascular Smooth Muscle Cell *Nutrients* 2022-07-22 [PMID: 35893859] (WB, Rat)

Koguchi M, Nakahara Y, Ito H et al. BMP4 induces asymmetric cell division in human glioma stem-like cells *Oncol Lett* 2020-02-01 [PMID: 31966054] (WB, Human)

Lo YH, Ho PC, Wang SC et al. Epidermal growth factor receptor protects proliferating cell nuclear antigen from cullin 4A protein-mediated proteolysis. *J Biol Chem* 2012-08-01 [PMID: 22692198]

Zhu Y, Wu Z, Cardoso MC et al. Processing of lagging-strand intermediates in vitro by herpes simplex virus type 1 DNA polymerase. *J Virol* 2010-08-01 [PMID: 20444887]

Ramos-Nino ME, Blumen SR, Sabo-Attwood T et al. HGF mediates cell proliferation of human mesothelioma cells through a PI3K/MEK5/Fra-1 pathway. *Am J Respir Cell Mol Biol* 2008-02-01 [PMID: 17872495]

Williams SA, Longerich S, Sung P et al. The E3 ubiquitin ligase RAD18 regulates ubiquitylation and chromatin loading of FANCD2 and FANCI. *Blood* 2011-05-01 [PMID: 21355096]



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Products Related to NB100-456

NBL1-14184	PCNA Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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