

Product Datasheet

PCNA Antibody (PC10) - Azide and BSA Free NBP2-80905

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-80905

PCNA Antibody (PC10) - Azide and BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	PC10
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	Protein A purified
Buffer	Tris-Glycine, 0.15M NaCl
Target Molecular Weight	30 kDa

Product Description	
Description	Novus Biologicals Mouse PCNA Antibody (PC10) - Azide and BSA Free (NB500-106) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF, Simple Western, IP and ChIP. Anti-PCNA Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	5111
Gene Symbol	PCNA
Species	Human, Mouse, Rat, Porcine, Chicken, Drosophila, Fish, Marsupial, Primate, Rabbit, Yeast, Zebrafish
Reactivity Notes	Fish reactivity reported in scientific literature (PMID: 30075024).
Immunogen	Protein A-rat PCNA fusion obtained from pC2T

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:2000, Simple Western 1:200, Chromatin Immunoprecipitation 1:10 - 1:500. Use reported in scientific literature (PMID 26883631), Flow Cytometry 1:10 - 1:1000, ELISA reported in scientific literature, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/Immunofluorescence 1:1000 - 1:2000. Use reported in scientific literature (PMID 22068968), Immunoprecipitation 1:100, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen 1:10 - 1:500, Immunohistochemistry Free-Floating reported in scientific literature (PMID 27212918), Chromatin Immunoprecipitation (ChIP) 1:10-1:500



Application Notes

It detects a band at 30 kDa by Western blot. For IHC on paraffin sections, heat-mediated citrate buffer antigen retrieval is recommended.

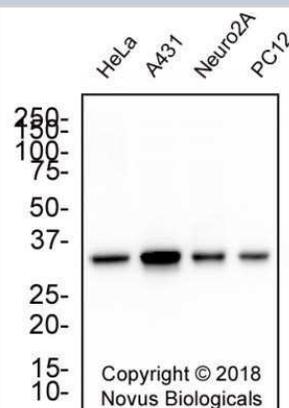
In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.

See [Simple Western Antibody Database](#) for Simple Western validation: antibody dilution of 1:200. Separated by Size-Wes, Sally Sue/Peggy Sue.

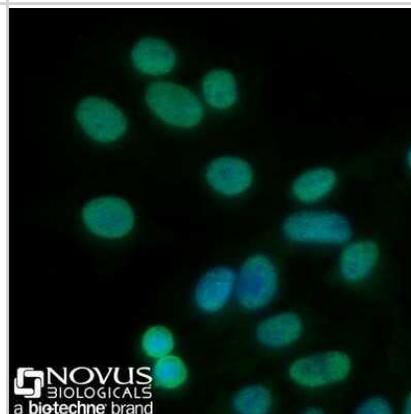
The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: PCNA Antibody (PC10) - Azide and BSA Free [NBP2-80905] - Whole cell protein from human HeLa, A431, mouse Neuro2A and rat PC12 cells was separated on a 4-20% gel by SDS-PAGE, transferred to 0.2 um PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/mL anti-Histone h3 in block buffer and detected with an anti-mouse HRP secondary antibody using chemiluminescence. Image from the standard format of this antibody.



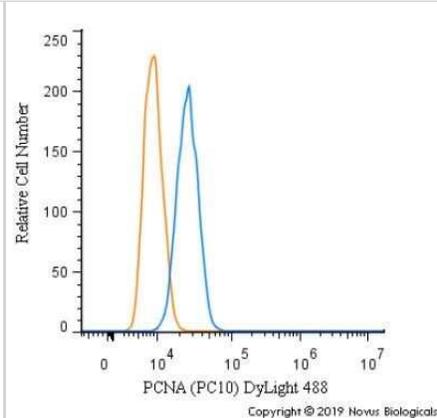
Immunocytochemistry/Immunofluorescence: PCNA Antibody (PC10) - Azide and BSA Free [NBP2-80905] - HeLa cells were fixed and permeabilized for 10 minutes using cold (-20C) MeOH. The cells were incubated with anti-PCNA [PC10] at 5 ug/mL overnight at 4C and detected with an anti-mouse IgG Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



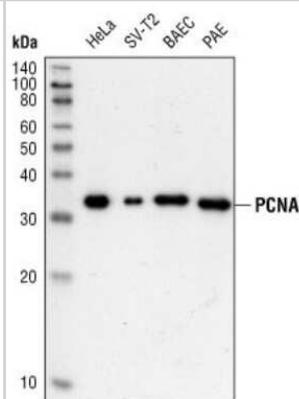
Immunohistochemistry: PCNA Antibody (PC10) - Azide and BSA Free [NBP2-80905] - Analysis of paraffin-embedded human colon carcinoma, showing nuclear localization. Image from the standard format of this antibody.



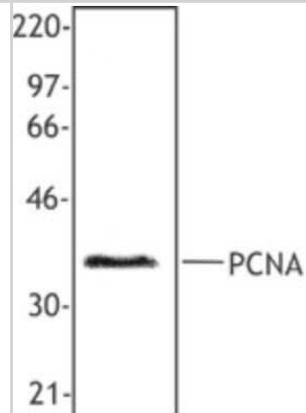
Flow Cytometry: PCNA Antibody (PC10) - Azide and BSA Free [NBP2-80905] - An intracellular stain was performed on HepG2 cells with PCNA Antibody (PC10) NB500-106G (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to DyLight 488.



Western Blot: PCNA Antibody (PC10) - Azide and BSA Free [NBP2-80905] - Analysis of human (HeLa lysate), murine (SV-T2 lysate), bovine (BAEC lysate), and porcine (PAE lysate) cell extracts. Image from the standard format of this antibody.



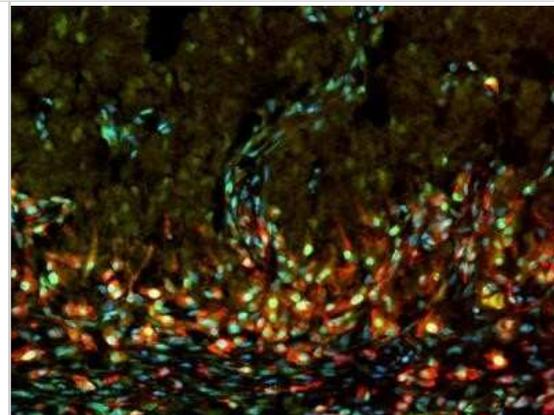
Western Blot: PCNA Antibody (PC10) - Azide and BSA Free [NBP2-80905] - HeLa cell nuclear extract was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-PCNA antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system. Image from the standard format of this antibody.



Immunohistochemistry: PCNA Antibody (PC10) - Azide and BSA Free [NBP2-80905] - Analysis of PCNA in mouse cornea. Image courtesy of product review by Bo-Yie Chen. Image from the standard format of this antibody.



Immunohistochemistry-Paraffin: PCNA Antibody (PC10) - Azide and BSA Free [NBP2-80905] - Paraformaldehyde fixed frozen section of brain from murine embryo using PCNA antibody clone PC10 (green), an IB4 antibody (red) and DAPI. Image provided by Dr. Siegenthaler via product review. Image from the standard format of this antibody.



Simple Western: PCNA Antibody (PC10) - Azide and BSA Free [NBP2-80905] - Image shows a specific band for PCNA in 0.5 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Image from the standard format of this antibody.



Publications

Lundine D, Annor GK, Chavez V et al. The C-terminus of Gain-of-Function Mutant p53 R273H Is Required for Association with PARP1 and Poly-ADP-Ribose Molecular cancer research : MCR 2022-12-02 [PMID: 36074101] (WB, Human)



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Products Related to NBP2-80905

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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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