

Product Datasheet

WRN Antibody - BSA Free NB100-471

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-471

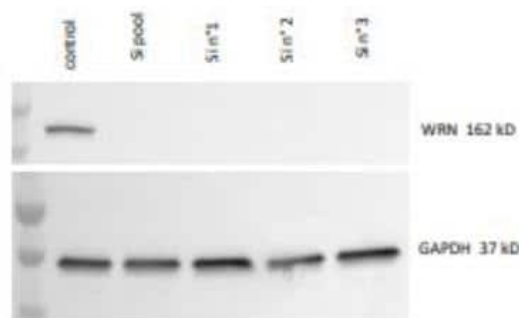
WRN Antibody - BSA Free

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 WRN Antibody - BSA Free (NB100-471) is a polyclonal antibody validated for use in IHC, WB, ICC/IF, Simple Western, IP and ChIP. Anti-WRN Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7486
Gene Symbol	WRN
Species	Human
Immunogen	The immunogen recognized by this antibody maps to a region between residues 400 and 450 of human Werner Syndrome Helicase using the numbering given in SwissProt entry Q14191 (GenelD 7486).
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:5000 - 1:25000, Simple Western 1:25, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50 - 1:200, Immunoprecipitation 2 - 5 ug/mg lysate, Chromatin Immunoprecipitation (ChIP)
Application Notes	Use in ICC/IF reported in scientific literature (PMID 25294835). Use in chromatin immunoprecipitation reported in scientific literature (PMID: 20065033). Use in Immunohistochemistry reported in scientific literature (PMID: 30146558). WRN antibody validated for WB from a verified customer review. See Simple Western Antibody Database for Simple Western validation: Tested in Cell Lysate, separated by Size, antibody dilution of 1:25, apparent MW was 200 kDa

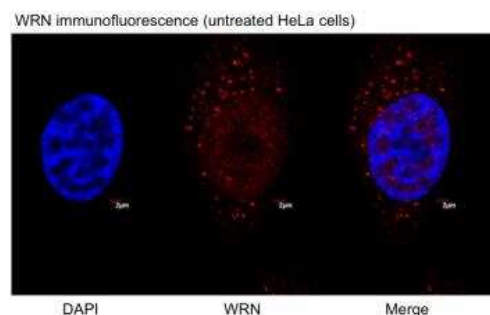


Images

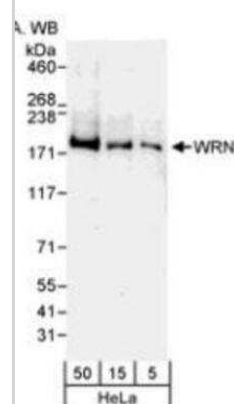
Western Blot: WRN Antibody [NB100-471] - Human colon cancer cells with siRNA Control, siRNA pool of siWrn and 3 different sets of siRNA Wrn. GAPDH loading control. Western blot image submitted by a verified customer review.



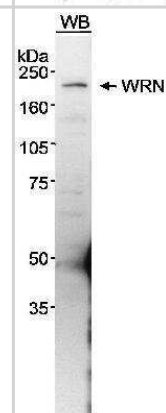
Immunocytochemistry/Immunofluorescence: WRN Antibody [NB100-471] - Analysis of WRN in untreated, asynchronous HeLa cells using anti-WRN antibody. The primary antibody was used at a dilution of 1:100, incubated for 1 hour at room temperature in 1XPBS. Image from verified customer review.



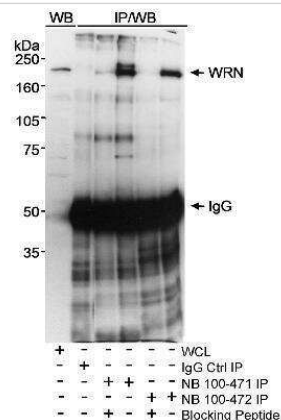
Western Blot: WRN Antibody [NB100-471] - Whole cell lysate (5, 15 and 50 ug) from HeLa cells.



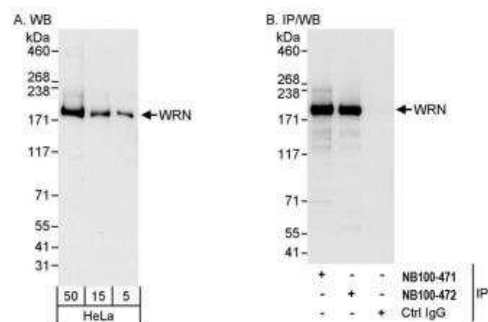
Western Blot: WRN Antibody [NB100-471] - Detection of WRN in 293T whole cell lysate using NB 100-471.



Western Blot: WRN Antibody [NB100-471] - Detection of human WRN on HeLa whole cell lysate using NB100-471. WRN was immunoprecipitated with NB100-471 or rabbit anti-WRN antibody NB100-472.



Immunoprecipitation: WRN Antibody [NB100-471] - Detection of human WRN by western blot and immunoprecipitation. Samples: Whole cell lysate (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded) from HeLa cells. Antibodies: Affinity purified rabbit anti-WRN antibody NB100-471 used for WB at 0.2 ug/ml (A) and 1 ug/ml (B) and used for IP at 3 ug/mg lysate. WRN was also immunoprecipitated by rabbit anti-WRN antibody NB100-472, which recognizes a downstream epitope. Detection: Chemiluminescence with exposure times of 30 seconds (A) and 3 seconds (B).



Publications

Lazarchuk P, Nguyen MM, Curca CM et Al. Werner syndrome RECQ helicase participates in and directs maintenance of the protein complexes of constitutive heterochromatin in proliferating human cells Aging (Albany NY) 2024-10-31 [PMID: 39422615]

Maresca C, Dello Stritto A, D'Angelo C et al. PARP1 allows proper telomere replication through TRF1 poly (ADP-ribose)ation and helicase recruitment Communications biology 2023-03-02 [PMID: 36864251] (Chromatin Immunoprecipitation (ChIP), Human)

Datta A, Biswas K, Sommers JA Et al. WRN helicase safeguards deprotected replication forks in BRCA2-mutated cancer cells Nature communications 2021-11-12 [PMID: 34772932] (ICC/IF)

Hayashi K, Tasaka T, Kondo T et al. Successful Cord Blood Transplantation in a Werner Syndrome Patient with High-risk Myelodysplastic Syndrome Intern. Med. 2018-08-24 [PMID: 30146558] (IF/IHC, Human)

Chen H, Wu X, Wang X et al. Downregulation of RECQL4 inhibits gastric cancer cell proliferation and induces cell cycle arrest at G0/G1 phase. Veterinary Microbiology. (WB, Human)

Thangavel S, Berti M, Levikova M et al. DNA2 drives processing and restart of reversed replication forks in human cells. J Cell Biol 2015-03-02 [PMID: 25733713] (Human)

Maddukuri L, Ketkar A, Eddy S et al. The Werner syndrome protein limits the error-prone 8-oxo-dG lesion bypass activity of human DnA polymerase kappa. Nucleic Acids Res. 2014-10-07 [PMID: 25294835] (ICC/IF, Human)

Maddukuri L, Ketkar A, Eddy S et al. Enhancement of human DNA polymerase Eta activity and fidelity is dependent upon a bipartite interaction with the Werner syndrome protein. J Biol Chem. 2012-12-07 [PMID: 23045531] (WB)

Betous R, Glick GG, Zhao R, Cortez D. Identification and Characterization of SMARCAL1 Protein Complexes. PLoS One 2013-05-09 [PMID: 23671665] (WB, Human)

Rizzo A, Salvati E, Porru M et al. Stabilization of quadruplex DNA perturbs telomere replication leading to the activation of an ATR-dependent ATM signaling pathway. Nucleic Acids Res 2009-09-01 [PMID: 19596811]

Das A, Boldogh I, Lee JW et al. The human Werner syndrome protein stimulates repair of oxidative DNA base damage by the DNA glycosylase NEIL1. J Biol Chem 2007-09-01 [PMID: 17611195]

Thangavel S, Mendoza-Maldonado R, Tissino E et al. Human RECQ1 and RECQ4 helicases play distinct roles in DNA replication initiation. Mol Cell Biol 2010-03-01 [PMID: 20065033] (Chemotaxis, Human)

More publications at <http://www.novusbio.com/NB100-471>





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Products Related to NB100-471

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-87143PEP	WRN Recombinant Protein Antigen

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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