

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) |

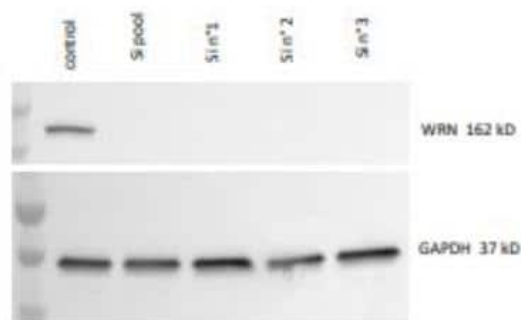
| Product Description | |
|---------------------|---|
| Description | Novus Biologicals Rabbit WRN Antibody - BSA Free (NB100-471) is a polyclonal antibody validated for use in IHC, WB, ICC/IF, Simple Western, IP and ChIP. Anti-WRN Antibody: Cited in 13 publications. All Novus Biologicals antibodies 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 (GeneID 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 |

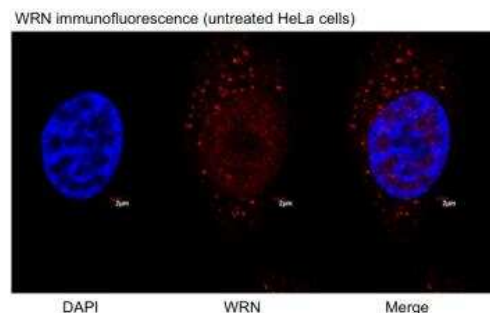


Images

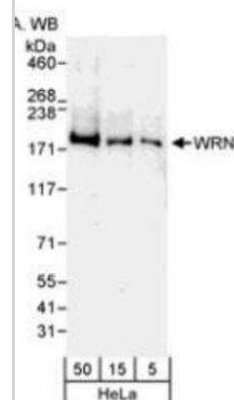
Western Blot: WRN Antibody [NB100-471] - Human colon cancer cells with siRNA Control, siRNA pool of siW_{rn} and 3 different sets of siRNA W_{rn}. GAPDH loading control. Western blot image submitted by a verified customer review.



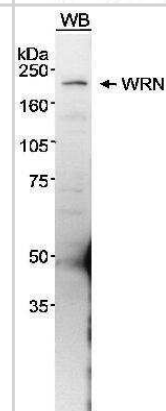
Immunocytochemistry/Immunofluorescence: WRN Antibody [NB100-471] - Analysis of WRN in untreated, asynchronous HeLa cells using anti-WRN antibody. The primary antibody was used at a dilution of 1:100, incubated for 1 hour at room temperature in 1XPBS. Image from verified customer review.



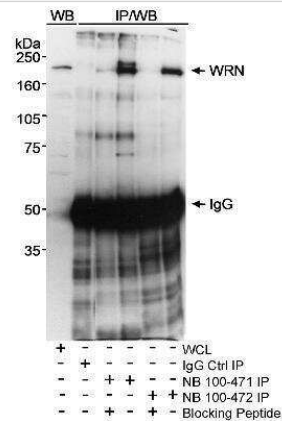
Western Blot: WRN Antibody [NB100-471] - Whole cell lysate (5, 15 and 50 ug) from HeLa cells.



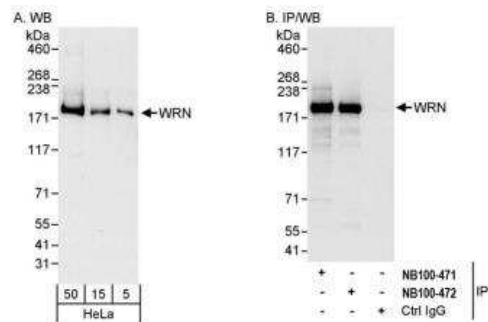
Western Blot: WRN Antibody [NB100-471] - Detection of WRN in 293T whole cell lysate using NB 100-471.



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

- Yoon J, Sellamuthu K, Prakash L et al. WRN and WRNIP1 ATPases impose high fidelity on translesion synthesis by Y-family DNA polymerases eLife 2025-09-03 [PMID: 40900148]
- 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)ylation 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]
- More publications at <http://www.novusbio.com/NB100-471>





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Products Related to NB100-471

| | |
|-------------|---|
| 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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