

Product Datasheet

Rad50 Antibody NBP2-20054

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

www.novusbio.com



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Publications: 2

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Updated 9/25/2025 v.20.1

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NBP2-20054

Rad50 Antibody

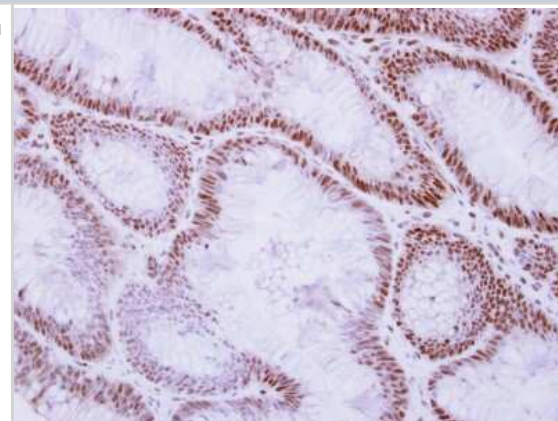
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	154 kDa

Product Description	
Description	Novus Biologicals Rabbit Rad50 Antibody (NBP2-20054) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-Rad50 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	10111
Gene Symbol	RAD50
Species	Human, Mouse, Rat
Immunogen	Recombinant protein encompassing a sequence within the center region of human Rad50. The exact sequence is proprietary.

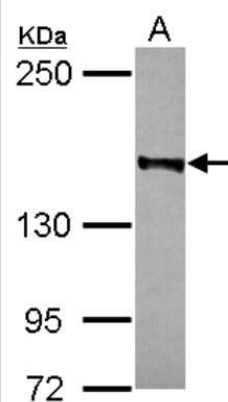
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:500-1:10000, Immunohistochemistry 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000, Knockdown Validated
Application Notes	Use in KD reported in scientific publication (PMID: 32023457).

Images

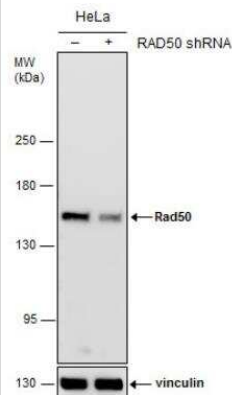
Immunohistochemistry-Paraffin: Rad50 Antibody [NBP2-20054] - Human colon carcinoma, using Rad50 antibody at 1:250 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



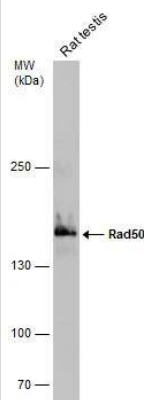
Western Blot: RAD50 Antibody [NBP2-20054] - Sample (30 ug of whole cell lysate) A: NT2D1 5% SDS PAGE gel, diluted at 1:5000.



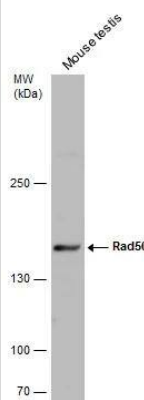
Western Blot: Rad50 Antibody [NBP2-20054] - Non-transfected (-) and transfected (+) HeLa whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with Rad50 antibody [C1C2], Internal.



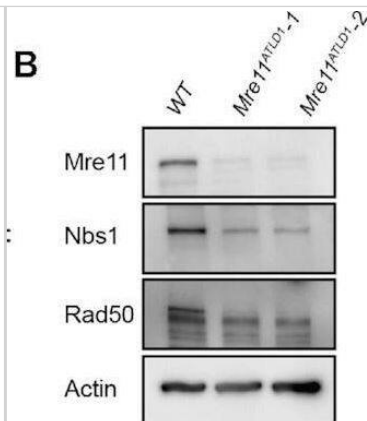
Rat tissue extract (50 ug) was separated by 5% SDS-PAGE, and the membrane was blotted with Rad50 antibody [C1C2], Internal (NBP2-20054) diluted at 1:1000.



Mouse tissue extract (50 ug) was separated by 5% SDS-PAGE, and the membrane was blotted with Rad50 antibody [C1C2], Internal (NBP2-20054) diluted at 1:5000.



Mre11 hypomorphism alters DSB repair pathway utilization. (A) Schema depicting the role of Mre11-mediated end resection in the regulation of DSB repair pathway choice. (B) Mre11ATLD1/ATLD1 MEFs exhibit reduced expression of the MRN complex by immunoblotting. (C–F) DSB repair products were identified in WT, Mre11ATLD1-1 and Mre11ATLD1-2 cells. (C) TMEJ-del 23 bp. (D) TMEJ-del 39 bp. (E) HR repair (HRD-500 donor) and (F) NHEJ-ins +1 bp. Mean +/- SEM are shown. Statistical significance was assessed by two-tailed t-tests. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$ and **** $P < 0.0001$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33963863>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Feng W, Simpson DA, Cho JE et al. Marker-free quantification of repair pathway utilization at Cas9-induced double-strand breaks *Nucleic acids research* 2021-05-21 [PMID: 33963863]

Fagan-Solis KD, Simpson DA, Kumar RJ et al. A P53-Independent DNA Damage Response Suppresses Oncogenic Proliferation and Genome Instability *Cell Rep* 2020-02-04 [PMID: 32023457] (WB, KD, Mouse)



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Products Related to NBP2-20054

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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