

Product Datasheet

Rad50 Antibody NB100-154

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-154**Rad50 Antibody**

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	153 kDa
Product Description	
Host	Rabbit
Gene ID	10111
Gene Symbol	RAD50
Species	Human, Mouse, Hamster
Immunogen	C-terminal mouse RAD50 (604 amino acids). [UniProt# P70388]
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, ICC/IF (Negative)
Recommended Dilutions	Western Blot 1:2000, Simple Western 1:2000, Immunocytochemistry/ Immunofluorescence reported in scientific literature, Immunoprecipitation 1:10-1:500, ICC/IF (Negative)
Application Notes	<p>This RAD50 antibody is useful for Immunoprecipitation and Western blot, where a band can be seen at 153 kDa. IP has been done with 3-4 X 10⁶ cells. ICC/IF does not appear to work. Immunocytochemistry/Immunofluorescence was reported in scientific literature.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:2000, apparent MW was 151 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> <p>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.</p>

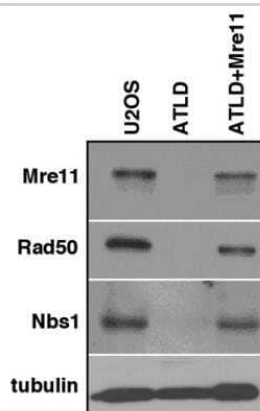


Images

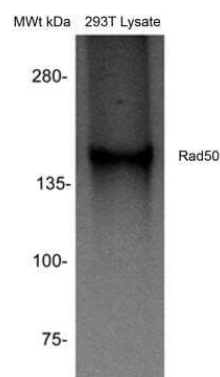
Simple Western: Rad50 Antibody [NB100-154] - Simple Western lane view shows a specific band for Rad50 in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



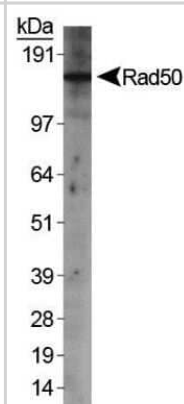
Western Blot: Rad50 Antibody [NB100-154] - Mre11-deficient ATLD1 cells are resistant to MK-8776. Whole cell lysates from U2OS, ATLD1 and ATLD1+Mre11 cells were analyzed by western blot for proteins of the MRN complex. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0044021](https://doi.org/10.1371/journal.pone.0044021)) licensed under a CC-BY license.



Western Blot: Rad50 Antibody [NB100-154] - WB detection of RAD50 protein in 30ug whole cell lysate of 293T cells using Rad50 antibody at 1:2000 dilution (Submitted via Verified Customer Review).



Western Blot: Rad50 Antibody [NB100-154] - Detection of Rad50 in HeLa nuclear extracts.



Publications

Pollina EA, Gilliam DT, Landau AT et al. A NPAS4-NuA4 complex couples synaptic activity to DNA repair Nature 2023-02-01 [PMID: 36792830] (In Vivo, Mouse)

Details:
CUT&RUN

Gnedina O, Morshneva A, Skvortsova E, Igotti M HDAC Inhibitor Sodium Butyrate Attenuates the DNA Repair in Transformed but Not in Normal Fibroblasts International Journal of Molecular Sciences 2022-03-23 [PMID: 35408878] (IP, Mouse)

Yoshimura Y Increased error-free DNA repair gene expression through reprogramming in human iPS cells Regenerative Therapy 2019-06-28 [PMID: 31304203] (WB, Human)

Kondratova A, Watanabe T, Marotta M et al. Replication fork integrity and intra-S phase checkpoint suppress gene amplification. Nucleic Acids Res 2015-02-11 [PMID: 25672394] (WB, Hamster)

Details:
Using the DyLight 488 conjugated version of NB100-904, catalog number NB100-904G.

Patel JP, Puck JM, Srinivasan R et al. Nijmegen Breakage Syndrome Detected by Newborn Screening for T Cell Receptor Excision Circles (TRECs) J. Clin. Immunol. 2015-02-13 [PMID: 25677497] (WB, Human)

Hartl B, Zeller T, Blanchette P et al. Adenovirus type 5 early region 1B 55-kDa oncoprotein can promote cell transformation by a mechanism independent from blocking p53-activated transcription. Oncogene 2008-06-12 [PMID: 18212738] (ICC/IF, WB, Human)

Okamoto K, Bartocci C, Ouzounov I et al. A two-step mechanism for TRF2-mediated chromosome-end protection. Nature 2013-02-06 [PMID: 23389450] (WB, IP, Human)

Murad NA, Cullen JK, McKenzie M et al. Mitochondrial dysfunction in a novel form of autosomal recessive ataxia. Mitochondrion 2012-11-01 [PMID: 23178371] (WB, Human)

Lu CS, Truong LN, Aslanian A et al. The RING finger protein RNF8 ubiquitinates Nbs1 to promote DNA double-strand break repair by homologous recombination J Biol Chem 2012-10-31 [PMID: 23115235] (WB, Human)

He J, Shi LZ, Truong LN et al. Rad50 zinc hook is important for the Mre11 complex to bind chromosomal DNA double-stranded breaks and initiate various DNA damage responses. J Biol Chem 2012-09-01 [PMID: 22833675] (WB, Human)

Thompson R, Montano R, Eastman A et al. The Mre11 nuclease is critical for the sensitivity of cells to Chk1 inhibition. PLoS One 2012-01-01 [PMID: 22937147] (WB, Human)

Buisson R, Masson JY. PALB2 self-interaction controls homologous recombination Nucleic Acids Res 2012-08-31 [PMID: 22941656] (Human)

More publications at <http://www.novusbio.com/NB100-154>





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Products Related to NB100-154

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-47316PEP	Rad50 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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