

# Product Datasheet

## Mre11 Antibody (12D7) - Azide and BSA Free NB100-473

Unit Size: 100 ul

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

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**NB100-473**

Mre11 Antibody (12D7) - Azide and BSA Free

Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	12D7
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	80 kDa

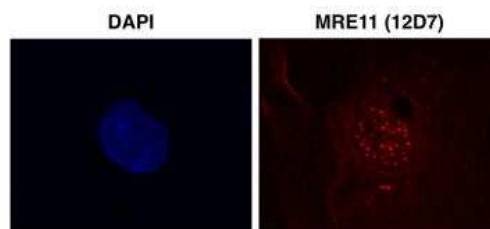
Product Description	
Description	Novus Biologicals Mouse Mre11 Antibody (12D7) - Azide and BSA Free (NB100-473) is a monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-Mre11 Antibody: Cited in 25 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	4361
Gene Symbol	MRE11
Species	Human, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Amino acids 182-582 of Mre11 expressed in E. coli.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Functional, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Proximity Ligation Assay, Knockdown Validated
Recommended Dilutions	Western Blot 1:500 - 1:3000, ELISA 1:100 - 1:2000, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:100 - 1:1000, Immunoprecipitation 1:100, Immunohistochemistry-Paraffin 1:200, Functional, Proximity Ligation Assay, Knockdown Validated
Application Notes	Mre11 antibody validated for ICC/IF and WB from verified customer reviews.

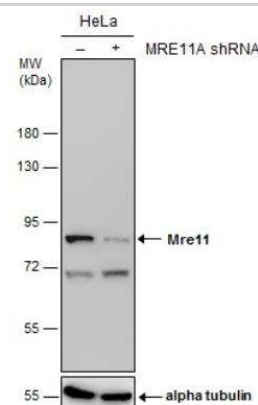


## Images

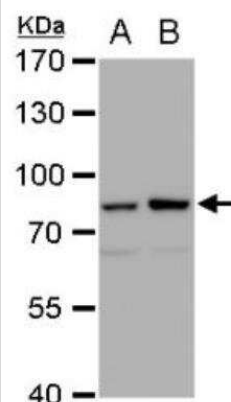
Immunocytochemistry/Immunofluorescence: Mre11 Antibody (12D7) [NB100-473] - Human primary cells stained with Mre11 antibody at a dilution of 1:60. cells were fixed in 1:1 Acetone/Methanol. ICC/IF image submitted by a verified customer review.



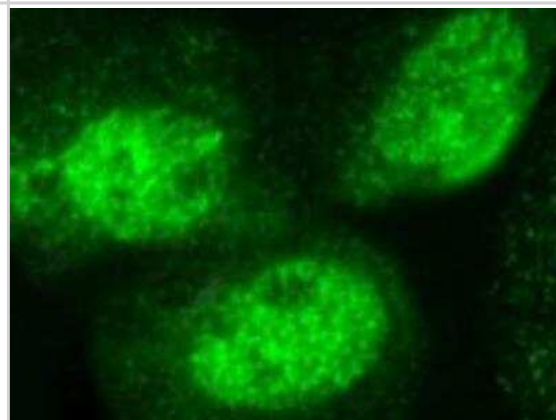
Western Blot: Mre11 Antibody (12D7) [NB100-473] - Non-transfected (-) and transfected (+) HeLa whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Mre11 antibody [12D7] diluted at 1:500. HRP-conjugated anti-mouse IgG antibody (NBP2-19382) was used to detect the primary antibody. A band appears at the theoretical molecular weight of 80 kDa.



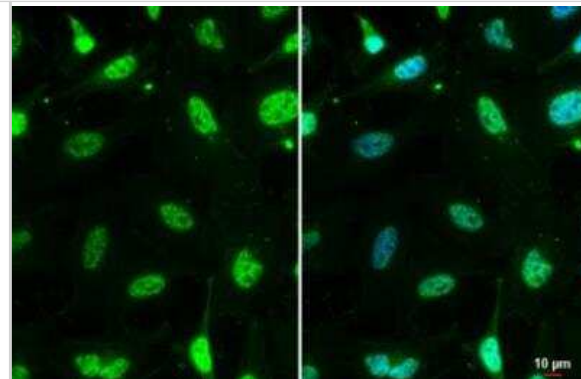
Western Blot: Mre11 Antibody (12D7) [NB100-473] - Mre11 antibody [12D7] detects Mre11 protein by western blot analysis. A. 30 ug 293T whole cell extract. B. 30 ug whole cell extract of human Mre11-transfected 293T cells. 7.5% SDS-PAGE. Mre11 antibody [12D7] (NB100-473). HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody. Bands are prominent at the theoretical molecular weight of 80 kDa.



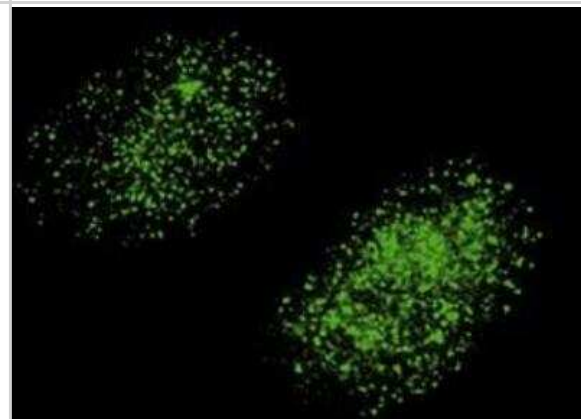
Immunocytochemistry/Immunofluorescence: Mre11 Antibody (12D7) [NB100-473] - Analysis of Mre11 antibody (12D7) on lymphoblastoid cells. Dilution 1:200. Image from verified customer review.



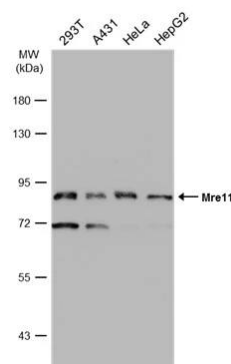
Immunocytochemistry/Immunofluorescence: Mre11 Antibody (12D7) [NB100-473] - Mre11 antibody [12D7] detects Mre11 protein at nucleus by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Mre11 stained by Mre11 antibody [12D7] (NB100-473). Blue: Hoechst 33342 staining. Scale bar= 10  $\mu$ m.



Immunocytochemistry/Immunofluorescence: Mre11 Antibody (12D7) [NB100-473] - Mouse fibroblasts stained with Mre11 Antibody (12D7). ICC/IF image submitted by a verified customer review.



Western Blot: Mre11 Antibody (12D7) [NB100-473] - Various whole cell extracts (30  $\mu$ g) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Mre11 antibody [12D7] (NB100-473) diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



## Publications

M Kusi, M Zand, LL Lin, M Chen, A Lopez, CL Lin, CM Wang, ND Lucio, NB Kirma, J Ruan, TH Huang, K Mitsuya 2-Hydroxyglutarate destabilizes chromatin regulatory landscape and lineage fidelity to promote cellular heterogeneity Cell Reports, 2022-01-11;38(2):110220. 2022-01-11 [PMID: 35021081]

Schuhwerk H, Kleemann J, Gupta P et al. The EMT transcription factor ZEB1 governs a fitness-promoting but vulnerable DNA replication stress response Cell reports 2022-12-13 [PMID: 36516781] (Immunocytochemistry/Immunofluorescence, Human)

Xiao H, Li F, Mladenov E et al. Increased Resection at DSBs in G2-Phase Is a Unique Phenotype Associated with DNA-PKcs Defects That Is Not Shared by Other Factors of c-NHEJ Cells 2022-07-02 [PMID: 35805183] (WB, Human)

Chansel-Da Cruz M, Hohl M, Ceppi I et al. A Disease-Causing Single Amino Acid Deletion in the Coiled-Coil Domain of RAD50 Impairs MRE11 Complex Functions in Yeast and Humans Cell reports 2020-12-29 [PMID: 33378670] (WB, Human)

Yamasaki S, Miura Y et al. Development of a method for effective amplification of human adenovirus 40. Arch Virol 2010-01-07 [PMID: 20490608] (WB, Human)

de Vries MR, Parma L, Peters EAB et al. Blockade of VEGF receptor 2 inhibits intraplaque hemorrhage by normalization of plaque neovessels J. Intern. Med. 2018-08-13 [PMID: 30102798] (IF/IHC, Mouse)

Harfst E, Cooper S, Neubauer S et al. Normal V(D)J recombination in cells from patients with Nijmegen breakage syndrome. Mol Immunol 2000-10-01 [PMID: 11282395] (WB)

Soares D, Battistella A, Rocca C et al. Ataxia telangiectasia mutated- and Rad3-related kinase drives both the early and the late DNA-damage response to the monofunctional antitumour alkylator S23906 Biochem J 2011-07-01 [PMID: 21470188] (WB, Human)

Zheng L, Kanagaraj R, Mihaljevic B et al. MRE11 complex links RECQ5 helicase to sites of DNA damage. Nucleic Acids Res 2009-05-01 [PMID: 19270065]

Ottini, L et al. MRE11 expression is impaired in gastric cancer with microsatellite instability. Carcinogenesis 25: 2337-2343. 2004-01-01 [PMID: 15319296]

Uziel T, Lerenthal Y, Moyal L et al. Requirement of the MRN complex for ATM activation by DNA damage. EMBO J 2003-10-01 [PMID: 14532133]

Xu X, Stern DF. NFB1/MDC1 regulates ionizing radiation-induced focus formation by DNA checkpoint signaling and repair factors. FASEB J 2003-10-01 [PMID: 14519663]

More publications at <http://www.novusbio.com/NB100-473>



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### **Products Related to NB100-473**

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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]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **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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