

# Product Datasheet

## Rad51D Antibody NB100-166

Unit Size: 0.1 ml

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

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**NB100-166**

## Rad51D Antibody

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	35 kDa

Product Description	
Host	Rabbit
Gene ID	5892
Gene Symbol	RAD51D
Species	Human, Mouse (Negative)
Reactivity Notes	Human. This antibody does not work in mouse.
Specificity/Sensitivity	This is specific for hRAD51D. There is no cross-reactivity observed with XRCC2, XRCC3, RAD51, RAD51B, or RAD51C.
Immunogen	A peptide from human Rad51D (homologue 4). [UniProt# O75771]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/Immunofluorescence, Immunoprecipitation
Application Notes	This Rad51D antibody is useful for Western blot, where it recognizes a band at 35 kDa representing Rad51D (H3 splice variant). Immunocytochemistry/Immunofluorescence and Immunoprecipitation were reported in scientific literature. 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.



## Publications

Park JY, Virts EL, Jankowska A et al. Complementation of hypersensitivity to DNA interstrand crosslinking agents demonstrates that XRCC2 is a Fanconi anaemia gene. *J. Med. Genet.* 2016-05-20 [PMID: 27208205] (WB, Human)

Chun J, Buechelmaier ES, Powell SN. Rad51 paralog complexes BCDX2 and CX3 act at different stages in the BRCA1-BRCA2-dependent homologous recombination pathway. *Mol Cell Biol* 2013-01-01 [PMID: 23149936] (Human)

Huang JW, Wang Y, Dhillon KK et al. Systematic Screen Identifies miRNAs That Target RAD51 and RAD51D to Enhance Chemosensitivity. *Mol Cancer Res* 2013-12-01 [PMID: 24088786] (WB, Human)

Wang Y, Huang JW, Calses P et al. MiR-96 Downregulates REV1 and RAD51 to Promote Cellular Sensitivity to Cisplatin and PARP Inhibition *Cancer Res* 2012-08-15 [PMID: 22761336] (WB, Human)

Chattopadhyay R, Das S, Maiti AK et al. Regulatory role of human AP-endonuclease (APE1/Ref-1) in YB-1-mediated activation of the multidrug resistance gene MDR1. *Mol Cell Biol*;28(23):7066-80. 2008-12-01 [PMID: 18809583]

Shammas MA, Shmookler Reis RJ, Koley H et al. Dysfunctional homologous recombination mediates genomic instability progression in myeloma. *Blood* 2009;113(10):2290-2297 [PMID: 19050310] (ICC/IF, Human)

Wiese, C et al. Disparate requirements for the Walker A and B ATPase motifs of human RAD51D in homologous recombination. *Nucleic Acids Res*;34(9):2833-43. 2006-05-22 [PMID: 16717288] (WB, IP, Human)





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA

Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
novus@novusbio.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada

Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom

Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: technical@novusbio.com  
Orders: orders@novusbio.com  
General: novus@novusbio.com

### **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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