

# Product Datasheet

## Rad51 Antibody - Azide and BSA Free H00005888-B01P

Unit Size: 0.05 mg

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

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**H00005888-B01P**

Rad51 Antibody - Azide and BSA Free

Product Information	
Unit Size	0.05 mg
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	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4)

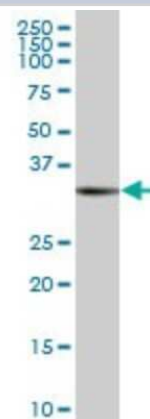
Product Description	
Description	Quality control test: Antibody reactive against mammalian transfected lysate.
Host	Mouse
Gene ID	5888
Gene Symbol	RAD51
Species	Human, Mouse, Rat, Bacteria
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	RAD51 - RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae),
Immunogen	RAD51 (NP_002866.2, 1 a.a. - 339 a.a.) full-length human protein. MAMQMQLLEANADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGFHTVEAVA YAPKKELINIKGISEAKADKILAEAAKLVPMTTATEFHQRRSEIIQITTGSKELD KLLQGGIETGSITEMFGEFRTGKTQICHTLAVTCQLPIDRGGGEGKAMYIDTEG TFRPERLLAVAERYGLSGSDVLDNVAYARAFNTDHQTQLLYQASAMMVESRY ALLIVDSATALYRTDYSGRGELSARQMHLARFLRMLLRLADEFGVAVVITNQVV AQVDGAAMFAADPKKPIGGNIIAHASTTRLYLRKGRGETRICKIYDSPCLPEAEA MFAINADGVGDAKD
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Antibody reactivity against Recombinant Protein with GST tag on ELISA and WB and also on transfected lysate in WB. GST tag alone is used as a negative control. May also be used for IF, IHC-P. Use in Immunohistochemistry reported in scientific literature (PMID: 26675349).

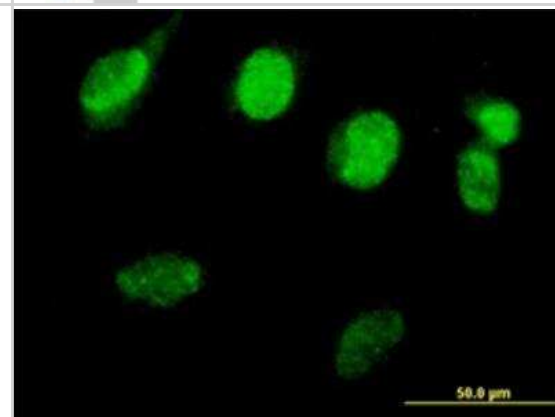


## Images

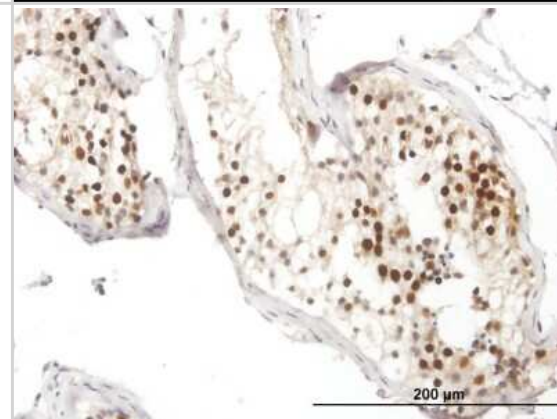
Western Blot: Rad51 Antibody [H00005888-B01P] - Analysis of RAD51 expression in human colon.



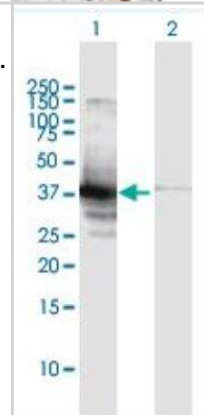
Immunocytochemistry/Immunofluorescence: Rad51 Antibody [H00005888-B01P] - Immunofluorescence of purified MaxPab antibody to RAD51 on HeLa cell. [antibody concentration 10 ug/ml]



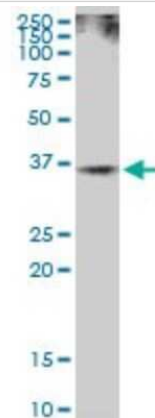
Immunohistochemistry-Paraffin: Rad51 Antibody [H00005888-B01P] - Analysis of purified antibody to RAD51 on formalin-fixed paraffin-embedded human testis. (antibody concentration 3 ug/ml)



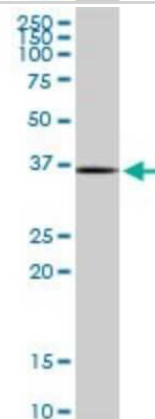
Western Blot: Rad51 Antibody [H00005888-B01P] - expression in transfected 293T cell line. Lane 1: RAD51 transfected lysate(37.29 KDa). Lane 2: Non-transfected lysate.



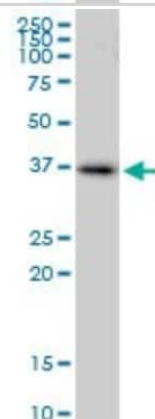
Western Blot: Rad51 Antibody [H00005888-B01P] - Analysis of RAD51 expression in PC-12.



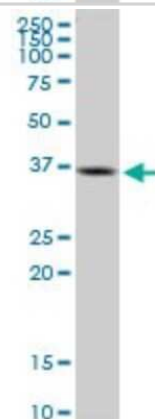
Western Blot: Rad51 Antibody [H00005888-B01P] - Analysis of RAD51 expression in Raw 264.7.



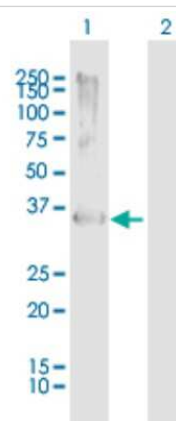
Western Blot: Rad51 Antibody [H00005888-B01P] - Analysis of RAD51 expression in Jurkat.



Western Blot: Rad51 Antibody [H00005888-B01P] - Analysis of RAD51 expression in NIH/3T3.



Western Blot: Rad51 Antibody [H00005888-B01P] - Analysis of RAD51 expression in transfected 293T cell line by RAD51 polyclonal antibody. Lane 1: RAD51 transfected lysate(37.29 KDa). Lane 2: Non-transfected lysate.



## Publications

Chaoyou X, Sameer S, Nozomi T et al. Bloom helicase mediates formation of large single-stranded DNA loops during DNA end processing. *Nat Commun.* 2022-04-26 [PMID: 35473934]

Duncan S, Nicola F, May M et al. A small-molecule inhibitor of the BRCA2-RAD51 interaction modulates RAD51 assembly and potentiates DNA damage-induced cell death. *Cell Chem Biol.* 2021-03-03 [PMID: 33662256]

Youngho K, Heike R, Weixing Z et al. DNA binding and RAD51 engagement by the BRCA2 C-terminus orchestrate DNA repair and replication fork preservation. *Nat Commun.* 2023-01-26 [PMID: 36702902]

Shi L, Sun J, Kinomura A et al. Matrin3 promotes homologous recombinational repair by regulation of RAD51. *J Biochem.* 2019-05-23 [PMID: 31119278]

Q Zhao, K Liu, L Zhang, Z Li, L Wang, J Cao, Y Xu, A Zheng, Q Chen, T Zhao BNIP3-dependent mitophagy safeguards ESC genomic integrity via preventing oxidative stress-induced DNA damage and protecting homologous recombination *Cell Death & Disease*, 2022-11-19;13(11):976. 2022-11-19 [PMID: 36402748]

Qi F, Meng Q, Hayashi I, and Kobayashi J Nucleolar protein nucleolin functions in replication stress-induced DNA damage responses. *J Radiat Res.* 2019-05-01 [PMID: 30839063]

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

He DJ, Wang L, Zhang ZB et al. Maternal gene Ooep may participate in homologous recombination-mediated DNA double-strand break repair in mouse oocytes. *Zool Res* 2018-06-15 [PMID: 29955025]

Tan SLW, Chadha S, Liu Y et al. A Class of Environmental and Endogenous Toxins Induces BRCA2 Haploinsufficiency and Genome Instability. *Cell* 2017-06-01 [PMID: 28575672]

Cagnetta A, Soncini D, Orecchioni S et al. Depletion of SIRT6 enzymatic activity increases acute myeloid leukemia cells vulnerability to DNA-damaging agents. *Haematologica.* 2017-10-12 [PMID: 29025907] (Human)

Cea M, Cagnetta A, Adamia S et al. Evidence for a role of the histone deacetylase SIRT6 in DNA damage response of multiple myeloma cells. *Blood Journal.* 2016-03-03 [PMID: 26675349] (IF/IHC, Human)

Jeyasekharan AD, Liu Y, Hattori H et al. A cancer-associated BRCA2 mutation reveals masked nuclear export signals controlling localization. *Nat Struct Mol Biol.* 2013-09-08 [PMID: 24013206]

More publications at <http://www.novusbio.com/H00005888-B01P>



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### **Products Related to H00005888-B01P**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97019-5mg	Mouse IgG Isotype Control
H00005888-P01-10ug	Recombinant Human Rad51 GST (N-Term) Protein

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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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