

# Product Datasheet

## **RAD18 Antibody (3H7) - Azide and BSA Free H00056852-M01**

Unit Size: 0.1 mg

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 2 Publications: 15**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/H00056852-M01](http://www.novusbio.com/H00056852-M01)

Updated 9/9/2025 v.20.1

**Earn rewards for product  
reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/H00056852-M01](http://www.novusbio.com/reviews/destination/H00056852-M01)



**H00056852-M01**

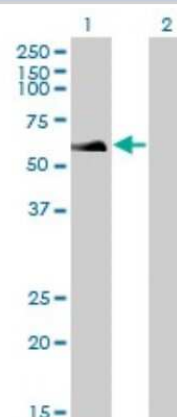
RAD18 Antibody (3H7) - Azide and BSA Free

Product Information	
Unit Size	0.1 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	Monoclonal
Clone	3H7
Preservative	No Preservative
Isotype	IgG2b Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Novus Biologicals Mouse RAD18 Antibody (3H7) - Azide and BSA Free (H00056852-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-RAD18 Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	56852
Gene Symbol	RAD18
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 26549024). Other species have not been tested.
Specificity/Sensitivity	RAD18 - RAD18 homolog ( <i>S. cerevisiae</i> )
Immunogen	RAD18 (NP_064550, 332 a.a. ~ 430 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. EKEIDEIHSKYRKKHKSEFQLLVQARKGYKKIAGMSQKTVTITKEDESTTEKLSS VCMGQEDNMTSVTNHFSQSKLDSPEELEPDREEDSSSCIDIQEV
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:500, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 25 ug/ml, Immunoprecipitation, Immunohistochemistry-Paraffin 1.5 ug/ml, Knockdown Validated
Application Notes	Antibody reactive against recominant protein and cell lysate for Western Blot. Has also been used for immunofluorescence, immunohistochemistry (paraffin), RNAi validation and ELISA.

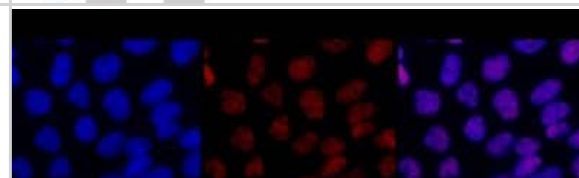


## Images

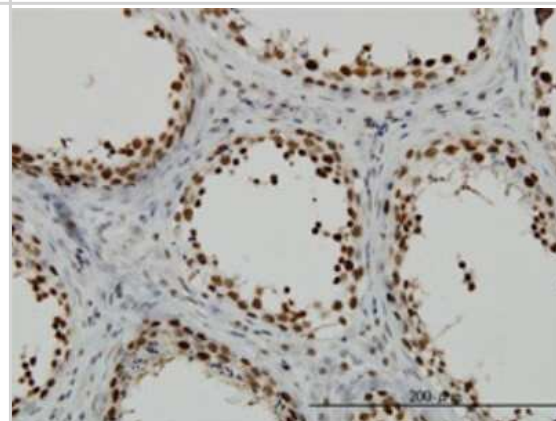
Western Blot: RAD18 Antibody (3H7) [H00056852-M01] - Analysis of RAD18 expression in transfected 293T cell line by RAD18 monoclonal antibody (M01), clone 3H7. Lane 1: RAD18 transfected lysate(56.2 KDa). Lane 2: Non-transfected lysate.



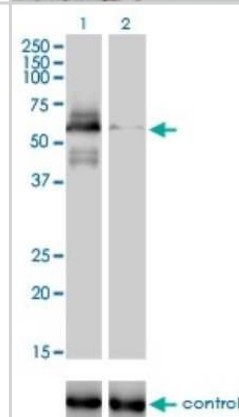
Immunocytochemistry/Immunofluorescence: RAD18 Antibody (3H7) [H00056852-M01] - The antibody was used to detect RAD18 in U2os Cells. Anti-mouse 2nd antibody was used for detection (Red). DAPI was used for nuclear staining (Blue). This image was submitted via customer Review.



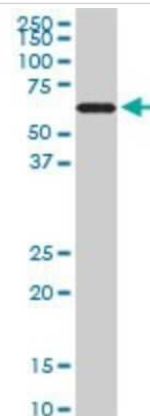
Immunohistochemistry-Paraffin: RAD18 Antibody (3H7) [H00056852-M01] - Analysis of monoclonal antibody to RAD18 on formalin-fixed paraffin-embedded human testis. Antibody concentration 1.5 ug/ml.



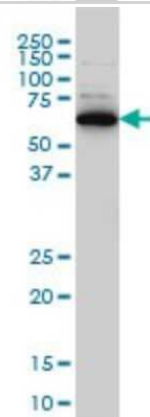
Western Blot: RAD18 Antibody (3H7) [H00056852-M01] - Analysis of RAD18 over-expressed 293 cell line, cotransfected with RAD18 Validated Chimera RNAi ( Cat # H00056852-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with RAD18 monoclonal antibody (M01), clone 3H7 (Cat # H00056852-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.



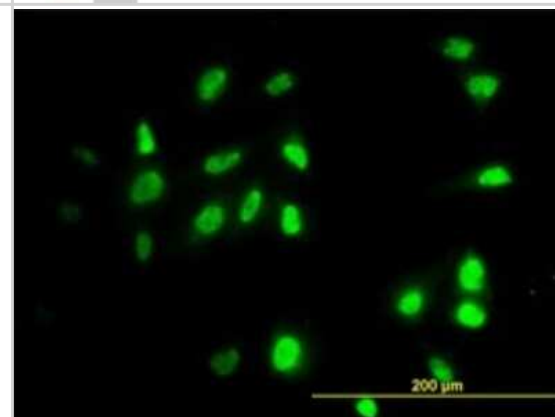
Western Blot: RAD18 Antibody (3H7) [H00056852-M01] - RAD18 monoclonal antibody (M01), clone 3H7. Analysis of RAD18 expression in PC-12.



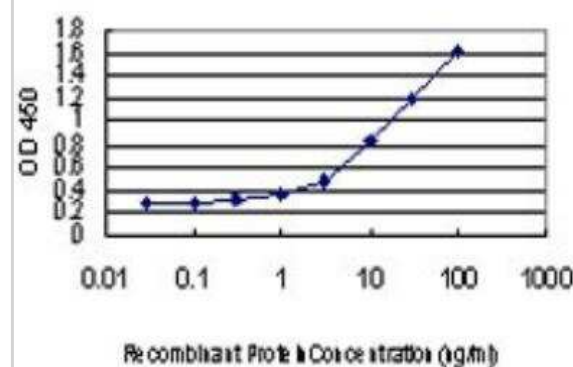
Western Blot: RAD18 Antibody (3H7) [H00056852-M01] - RAD18 monoclonal antibody (M01), clone 3H7. Analysis of RAD18 expression in HeLa S3 NE.



Immunocytochemistry/Immunofluorescence: RAD18 Antibody (3H7) [H00056852-M01] - Analysis of monoclonal antibody to RAD18 on HeLa cell. Antibody concentration 25 ug/ml.



ELISA: RAD18 Antibody (3H7) [H00056852-M01] - Detection limit for recombinant GST tagged RAD18 is approximately 0.1 ng/ml as a capture antibody.



## Publications

Zeman MK, Lin JR, Freire R, Cimprich KA. DNA damage-specific deubiquitination regulates Rad18 functions to suppress mutagenesis *Journal of Cell Biology* 2014-07-21 [PMID: 25023518]

Xiaolu Ma, Hui Fu, Chenyi Sun, Wei Wu, Wenya Hou, Zibin Zhou, Hui Zheng, Yifei Gong, Honglin Wu, Junying Qin, Huiqiang Lou, Jing Li, Tie-Shan Tang, Caixia Guo RAD18 O-GlcNAcylation promotes translesion DNA synthesis and homologous recombination repair *Cell Death & Disease* 2024-05-08 [PMID: 38719812]

Lim KS, Li H, Roberts EA et al. USP1 Is Required for Replication Fork Protection in BRCA1-Deficient Tumors *Mol. Cell* 2018-12-20 [PMID: 30576655] (WB, Human)

Wong RP, Lin H, Khosravi S et al. Tumour suppressor ING1b maintains genomic stability upon replication stress. *Nucleic Acids Res.* 2011-01-11 [PMID: 21227930]

Yanagihara H, Kobayashi J, Tateishi S et al. NBS1 Recruits RAD18 via a RAD6-like Domain and Regulates Pol ettab-Dependent Translesion DNA Synthesis. *Mol Cell.* 2011-09-02 [PMID: 21884979]

Wong RP, Aguisa-Toure AH, Wani AA et al. Elevated expression of Rad18 regulates melanoma cell proliferation. *Pigment Cell Melanoma Res.* 2011-12-06 [PMID: 22145991]

Kato D, Waki M, Umezawa M et al. Phosphorylation of human INO80 is involved in DNA damage tolerance *Biochem Biophys Res Commun.* 2011-12-07 [PMID: 22166198]

Sy SM, Jiang J, O WS et al. The ubiquitin specific protease USP34 promotes ubiquitin signaling at DNA double-strand breaks. *Nucleic Acids Res.* 2013-07-17 [PMID: 23863847]

Kanu N, Zhang T, Burrell RA et al. RAD18, WRNIP1 and ATMIN promote ATM signalling in response to replication stress. *Oncogene.* 2015-11-09 [PMID: 26549024] (ICC/IF, Mouse, Human)

Kile AC, Chavez DA, Bacal J et al. HLTF's Ancient HIRAN Domain Binds 3' DNA Ends to Drive Replication Fork Reversal *Mol. Cell.* 2015-06-18 [PMID: 26051180] (WB, Human)

Huehls AM, Wagner JM, Huntoon CJ, Karnitz LM. Identification of DNA Repair Pathways That Affect the Survival of Ovarian Cancer Cells Treated with a Poly(ADP-Ribose) Polymerase Inhibitor in a Novel Drug Combination *Mol Pharmacol* 2012-10-01 [PMID: 22833573]

Ghosal G, Leung JW, Nair BC et al. PCNA-binding protein C1orf124 is a regulator of translesion synthesis *J Biol Chem* 2012-08-17 [PMID: 22902628] (ICC/IF, WB, Human)

More publications at <http://www.novusbio.com/H00056852-M01>





### **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  
nb-customerservice@bio-techne.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: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to H00056852-M01**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
H00056852-P01-10ug	Recombinant Human RAD18 GST (N-Term) Protein

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/H00056852-M01](http://www.novusbio.com/reviews/submit/H00056852-M01)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

