Product Datasheet

XRCC3 Antibody - BSA Free
NB100-165

Unit Size: 0.1 ml

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

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Reviews: 1 Publications: 20

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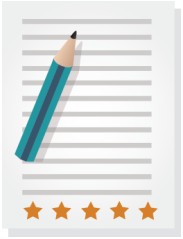
Updated 9/9/2025 v.20.1



NB100-165

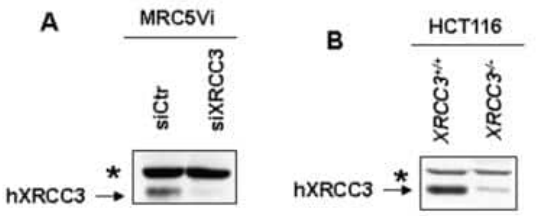
XRCC3 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	38 kDa

Product Description	
Description	Novus Biologicals Rabbit XRCC3 Antibody - BSA Free (NB100-165) is a polyclonal antibody validated for use in WB and IP. Anti-XRCC3 Antibody: Cited in 19 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7517
Gene Symbol	XRCC3
Species	Human, Drosophila, Hamster
Reactivity Notes	Drosophila reactivity reported in scientific literature (PMID: 28743001). Hamster reactivity reported in scientific literature (PMID: 24116071).
Immunogen	A synthetic partial peptide of human XRCC3. [UniProt# O43542]

Product Application Details	
Applications	Western Blot, Immunoprecipitation, ICC/IF (Negative)
Recommended Dilutions	Western Blot 1:5000, Immunoprecipitation, ICC/IF (Negative)
Application Notes	This XRCC3 antibody is useful for Western blot, where a band can be seen at 38 kDa. No cross-reactivity was observed with XRCC2, RAD51, RAD51B, RAD51C, or RAD51D. The antibody is not applicable for Immunocytochemistry/Immunofluorescence.

Images

Western Blot: XRCC3 Antibody [NB100-165] - (A) Human XRCC3 (hXRCC3) expression was down regulated by siRNA in human transofrmed fibroblasts. (B) XRCC3 was inactivated in human colon cancer cells by gene targeting [Yoshihara et all., 2004, EMBO J., 23 (3), 670-680]. hXRCC3 was detected by WB using XRCC3 antibody (NB100-165). The star indicates non-specific cross-reactivity of the antibody. Image provided by confirmed customer review.	
Western Blot: XRCC3 Antibody [NB100-165] - Detection of XRCC3 (38 kDa) from HeLa cell extract using NB100-165 (1:2500). Lanes 1 and 2 contain HTC116 and Hela whole cell extracts, respectively.	

Publications

Longo MA, Roy S, Chen Y et al. RAD51C-XRCC3 structure and cancer patient mutations define DNA replication roles Nature communications 2023-07-24 [PMID: 37488098] (Immunoprecipitation, Human)

Marzio A, Puccini J, Kwon Y et al. The F-Box Domain-Dependent Activity of EMI1 Regulates PARPi Sensitivity in Triple-Negative Breast Cancers Mol. Cell 2018-12-06 [PMID: 30554948]

Sardar S, McNair CM, Ravindranath L et al. AR coactivators, CBP/p300, are critical mediators of DNA repair in prostate cancer Oncogene 2024-09-13 [PMID: 39266679]

Ermilov A, Kumari A, Li L Maintenance of Taste Organs Is Strictly Dependent on Epithelial Hedgehog/GLI Signaling PLoS Genet, 2016-11-28;12(11):e1006442. 2016-11-28 [PMID: 27893742]

Kumari A, Ermilov An, Allen Bl et al. Hedgehog pathway blockade with the cancer drug LDE225 disrupts taste organs and taste sensation. J. neurophysiol. 2014-11-12 [PMID: 25392175]

Sterle I, Zupancic D, Romih R. Correlation between urothelial differentiation and sensory proteins P2X3, P2X5, TRPV1, and TRPV4 in normal urothelium and papillary carcinoma of human bladder. Biomed Res Int. 2014-05-28 [PMID: 24868547]

Shafi AA, McNair CM, McCann JJ, et al. The circadian cryptochrome, CRY1, is a pro-tumorigenic factor that rhythmically modulates DNA repair Nature communications 2021-01-15 [PMID: 33452241] (WB, Human)

Pae J, Cinalli RM, Marzio A et al. GCL and CUL3 Control the Switch between Cell Lineages by Mediating Localized Degradation of an RTK Dev. Cell 2017-07-24 [PMID: 28743001] (Drosophila)

Parplys AC, Zhao W, Sharma N et al. NUCKS1 is a novel RAD51AP1 paralog important for homologous recombination and genome stability. Nucleic Acids Res. 2015-08-31 [PMID: 26323318] (WB, 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)

Girard PM, Graindorge D, Smirnova V et al. Oxidative Stress in Mammalian Cells Impinges on the Cysteines Redox State of Human XRCC3 Protein and on Its Cellular Localization. PLoS One. 2013-10-08 [PMID: 24116071] (WB, Hamster)

Park JY, Singh TR, Nassar N et al. Breast cancer-associated missense mutants of the PALB2 WD40 domain, which directly binds RAD51C, RAD51 and BRCA2, disrupt DNA repair. Oncogene. 2013-10-21 [PMID: 24141787] (WB, Human)

More publications at http://www.novusbio.com/NB100-165

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Products Related to NB100-165

NBL1-17915	XRCC3 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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