

Product Datasheet

XRCC1 Antibody - BSA Free

NBP1-87154

Unit Size: 0.1 ml

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

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Publications: 7

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Updated 9/9/2025 v.20.1

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NBP1-87154

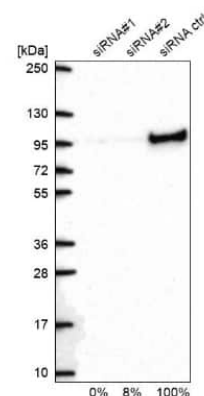
XRCC1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
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	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Description	Novus Biologicals Rabbit XRCC1 Antibody - BSA Free (NBP1-87154) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-XRCC1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7515
Gene Symbol	XRCC1
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (85%), Rat (85%)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: WDRVKIVCSQPYSKDSPFGLSFVRFHSPDPKDEAEAPSQKVTVTKLGQFRVKE EDESANSLRPGALFFSRINKTSPVTASDPAGPSYAAATLQASSAASSASPVSR IGSTSKPQESPKGKRKLDLNQEEKKT
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

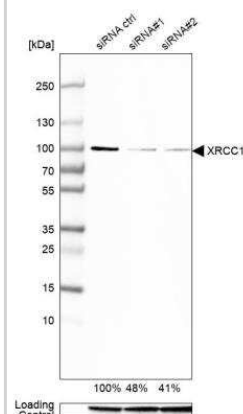


Images

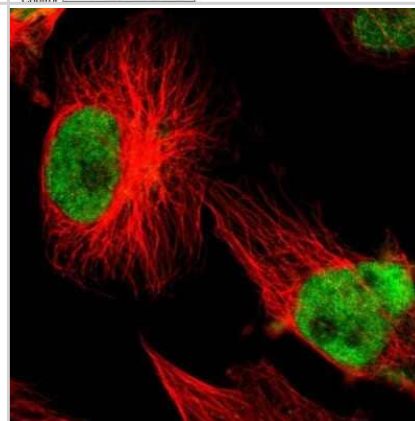
Western Blot: XRCC1 Antibody [NBP1-87154] - Analysis in U2OS cells transfected with control siRNA, target specific siRNA probe #1 and #2. Remaining relative intensity is presented



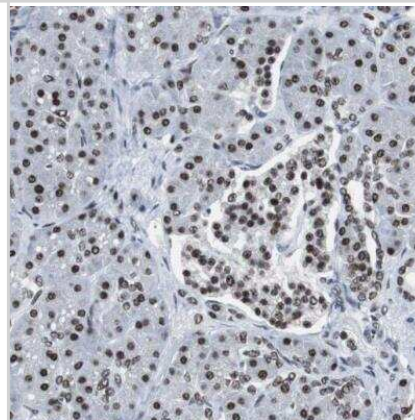
Western Blot: XRCC1 Antibody [NBP1-87154] - Analysis in A-549 cells transfected with control siRNA, target specific siRNA probe #1 and #2. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



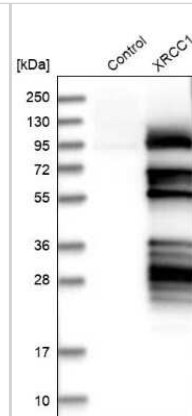
Immunocytochemistry/Immunofluorescence: XRCC1 Antibody [NBP1-87154] - Staining of human cell line U-251 MG shows localization to nucleoplasm. Antibody staining is shown in green.



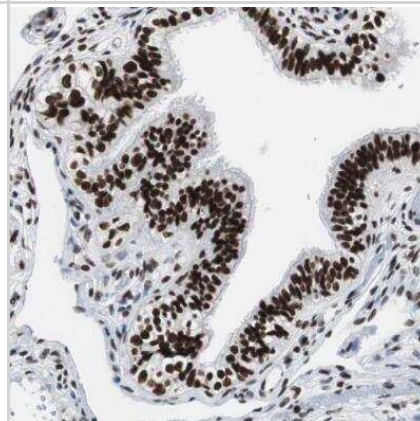
Immunohistochemistry-Paraffin: XRCC1 Antibody [NBP1-87154] - Staining of human pancreas shows moderate to strong nuclear positivity in exocrine glandular cells.



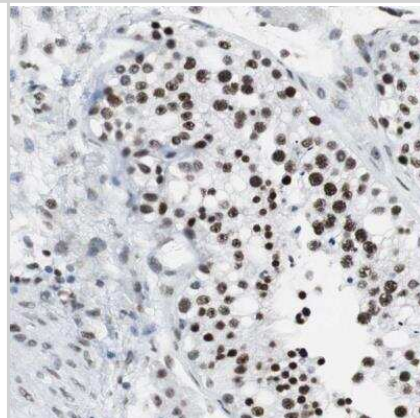
Western Blot: XRCC1 Antibody [NBP1-87154] - Analysis in control (vector only transfected HEK293T lysate) and XRCC1 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (3.1 kDa) in mammalian HEK293T cells).



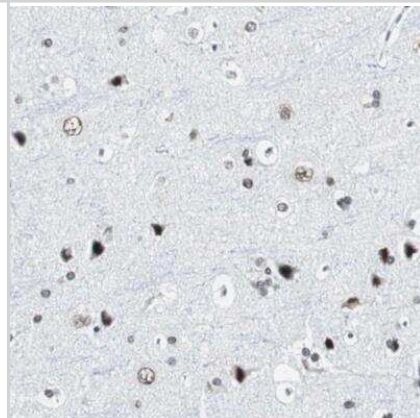
Immunohistochemistry-Paraffin: XRCC1 Antibody [NBP1-87154] - Staining of human fallopian tube shows strong nuclear positivity in glandular cells.



Immunohistochemistry-Paraffin: XRCC1 Antibody [NBP1-87154] - Staining of human testis shows strong nuclear positivity in cells in seminiferous ducts.



Immunohistochemistry-Paraffin: XRCC1 Antibody [NBP1-87154] - Staining of human cerebral cortex shows strong nuclear positivity in neurons.



Publications

Lee, TH;Qiao, CX;Kuzin, V;Shi, Y;Farkas, M;Zhao, Z;Ramanarayanan, V;Wu, T;Guan, T;Zhou, X;Corujo, D;Buschbeck, M;Baranello, L;Oberdoerffer, P; Epigenetic control of topoisomerase 1 activity presents a cancer vulnerability Nature communications 2025-08-12 [PMID: 40796804]

Wu W, Hill SE, Nathan WJ et al. Neuronal enhancers are hotspots for DNA single-strand break repair Nature 2021-05-20 [PMID: 33767446] (Immunoprecipitation, Western Blot)

van den Heuvel D, Rodríguez-Martínez M, van der Meer PJ et Al. STK19 facilitates the clearance of lesion-stalled RNAPII during transcription-coupled DNA repair Cell 2024-11-11 [PMID: 39547229]

Gautam A, Fawcett H, Burdova K et al. APE1-dependent base excision repair of DNA photodimers in human cells Molecular cell 2023-10-19 [PMID: 37816354] (ICC/IF, Human)

Details:

ICC/IF 1:2000 dilution

Bilkis R, Lake RJ, Cooper KL et al. The CSB chromatin remodeler regulates PARP1- and PARP2-mediated single-strand break repair at actively transcribed DNA regions Nucleic acids research 2023-06-16 [PMID: 37326017] (WB, Human)

Demin A, Hirota K, Tsuda M et al. XRCC1 Prevents Toxic PARP1 Trapping During DNA Base Excision Repair Mol Cell 2021-06-08 [PMID: 34102106]

Komulainen E, Badman J, Rey S et al. Parp1 hyperactivity couples DNA breaks to aberrant neuronal calcium signalling and lethal seizures EMBO reports 2021-05-05 [PMID: 33932076]





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Products Related to NBP1-87154

NBP1-87154PEP	XRCC1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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