

# 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: 6

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Updated 2/21/2025 v.20.1

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**NBP1-87154**

XRCC1 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

**Product Description**

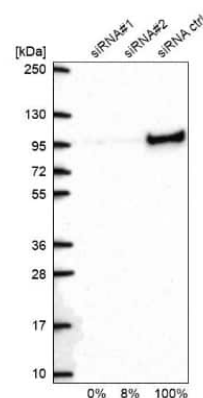
<b>Host</b>	Rabbit
<b>Gene ID</b>	7515
<b>Gene Symbol</b>	XRCC1
<b>Species</b>	Human
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (85%), Rat (85%)
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: WDRVKIVCSQPYSKDSPFGLSFVRFHSPDPKDEAEAPSQKVTVTKLGQFRVKE EDESANSLRPGALFFSRINKTSPVTASDPAGPSYAAATLQASSAASSASPVSR IGSTSKPQESPKGKRKLDLNQEEKKT

**Product Application Details**

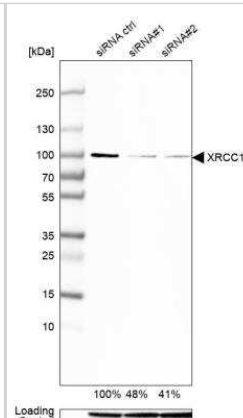
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500, Knockdown Validated
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

**Images**

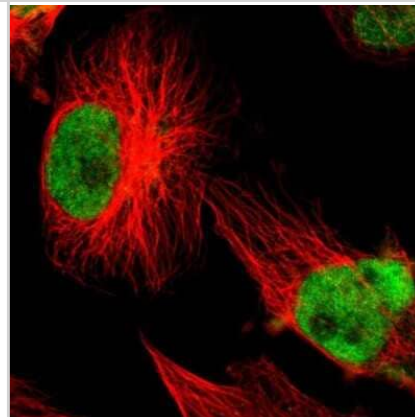
Western Blot: XRCC1 Antibody [NBP1-87154] - Analysis in U2OS cells transfected with control siRNA, target specific siRNA probe #1 and #2,. Remaining relative intensity is presented



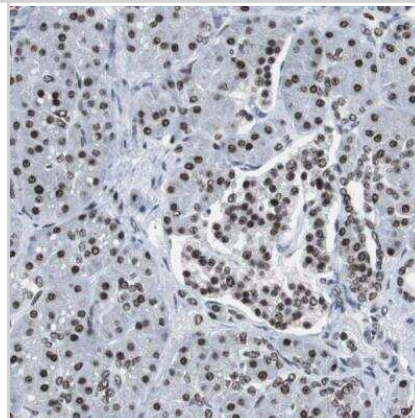
Western Blot: XRCC1 Antibody [NBP1-87154] - Analysis in A-549 cells transfected with control siRNA, target specific siRNA probe #1 and #2. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



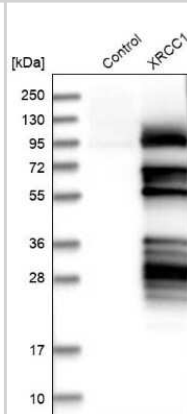
Immunocytochemistry/Immunofluorescence: XRCC1 Antibody [NBP1-87154] - Staining of human cell line U-251 MG shows localization to nucleoplasm. Antibody staining is shown in green.



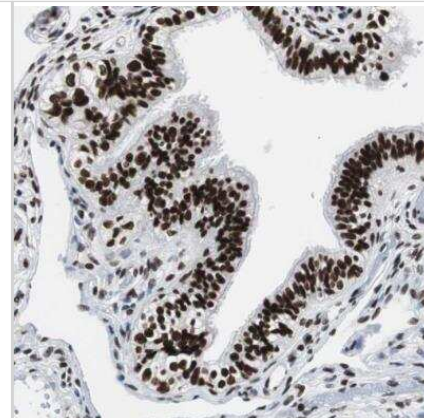
Immunohistochemistry-Paraffin: XRCC1 Antibody [NBP1-87154] - Staining of human pancreas shows moderate to strong nuclear positivity in exocrine glandular cells.



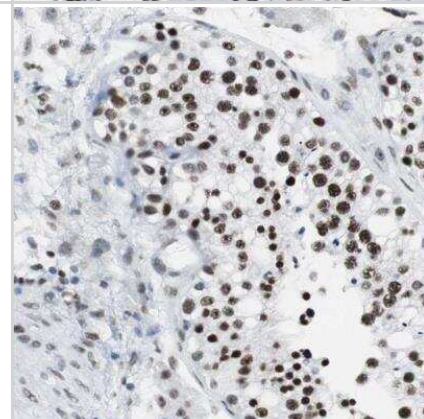
Western Blot: XRCC1 Antibody [NBP1-87154] - Analysis in control (vector only transfected HEK293T lysate) and XRCC1 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (3.1 kDa) in mammalian HEK293T cells).



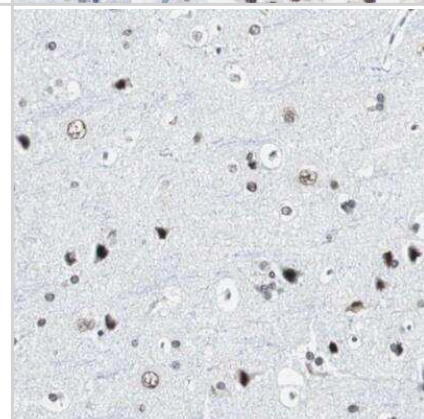
Immunohistochemistry-Paraffin: XRCC1 Antibody [NBP1-87154] - Staining of human fallopian tube shows strong nuclear positivity in glandular cells.



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

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

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)

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**

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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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### **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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