

# Product Datasheet

## XPC Antibody (3.26) - Azide and BSA Free NB100-477

Unit Size: 100 ul

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

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**Reviews: 1 Publications: 21**

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**NB100-477**

XPC Antibody (3.26) - Azide and BSA Free

Product Information	
Unit Size	100 ul
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	Monoclonal
Clone	3.26
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	123 kDa

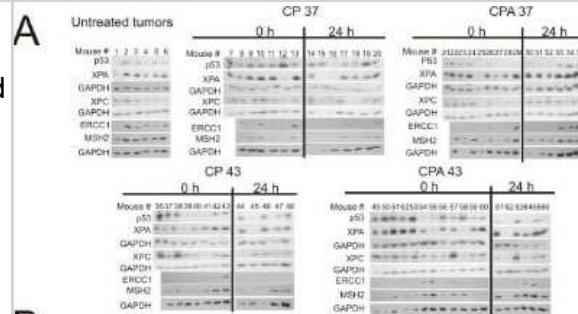
Product Description	
Description	Novus Biologicals Mouse XPC Antibody (3.26) - Azide and BSA Free (NB100-477) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-XPC Antibody: Cited in 21 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7508
Gene Symbol	XPC
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 17229834). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Recombinant XPC purified from E. coli

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin
Application Notes	IHC-P (Paraffin sections) Assay dependent

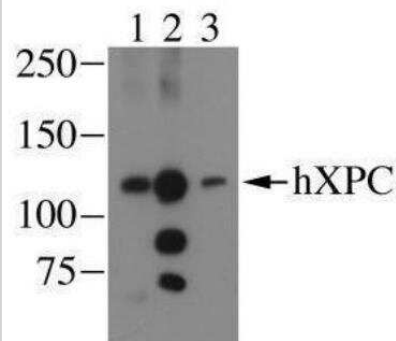


## Images

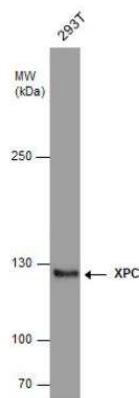
Western Blot: XPC Antibody (3.26) [NB100-477] - DNA repair protein expression in tumors. A. Western blot determination of p53, XPC, XPA, ERCC1 and MSH2 in tumors. GAPDH is loading control. Image collected and cropped by CiteAb from the following publication ([//ovarianresearch.biomedcentral.com/articles/10.1186/1757-2215-4-9](http://ovarianresearch.biomedcentral.com/articles/10.1186/1757-2215-4-9)) licensed under a CC-BY license.



Western Blot: XPC Antibody (3.26) [NB100-477] - HeLa whole cell lysate detected using rabbit polyclonal .



Western Blot: XPC Antibody (3.26) [NB100-477] - Whole cell extracts (30 ug) was separated by 5% SDS-PAGE, and the membrane was blotted with XPC antibody [3.26] diluted at 1:500.



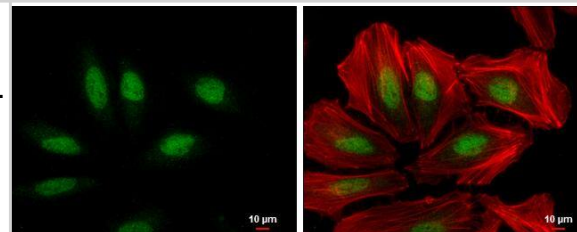
XPC antibody [3.26] detects XPC protein at nucleus by immunofluorescent analysis.

Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: XPC protein stained by XPC antibody [3.26] (NB100-477) diluted at 1:100.

Red: Phalloidin, a cytoskeleton marker, diluted at 1:200.

Scale bar = 10  $\mu$ m.



## Publications

W Dai, A Wu, Y Li, G Yu, X Yan XPA Enhances Temozolomide Resistance of Glioblastoma Cells by Promoting Nucleotide Excision Repair Cell Transplantation, 2022-01-01;31(0):9636897221092. 2022-01-01 [PMID: 35536165] (Immunocytochemistry/ Immunofluorescence, Human)

W Sakai, M Yuasa-Suna, M Kusakabe, A Kishimoto, T Matsui, Y Kaneko, JI Akagi, N Huyghe, M Ikura, T Ikura, F Hanaoka, M Yokoi, K Sugawara Functional impacts of the ubiquitin-proteasome system on DNA damage recognition in global genome nucleotide excision repair Sci Rep, 2020-11-12;10(1):19704. 2020-11-12 [PMID: 33184426] (Immunocytochemistry/ Immunofluorescence, Human)

Schaich MA, Schnable BL, Kumar N et al. Single-molecule analysis of DNA-binding proteins from nuclear extracts (SMADNE) Nucleic Acids Research 2023-04-24 [PMID: 36861323] (Immunocytochemistry/ Immunofluorescence, Human)

Hameed J S F, Devarajan A, M S DP et al. PTEN-negative endometrial cancer cells protect their genome through enhanced DDB2 expression associated with augmented nucleotide excision repair BMC cancer 2023-05-04 [PMID: 37142958] (WB, Human)

Fast OG, Gentry B, Strouth L et al. Polynuclear ruthenium organometallic compounds induce DNA damage in human cells identified by the nucleotide excision repair factor XPC Biosci. Rep. 2019-06-21 [PMID: 31227614] (IF, Human)

Beresova L, Vesela E, Chamrad I et al. Role of DNA Repair Factor Xeroderma Pigmentosum Protein Group C in Response to Replication Stress As Revealed by DNA Fragile Site Affinity Chromatography and Quantitative Proteomics. J. Proteome Res. 2016-12-02 [PMID: 27794614]

Mohni KN, Kavanaugh GM, Cortez D. ATR pathway inhibition is synthetically lethal in cancer cells with ERCC1 deficiency. Cancer Res. 2014-03-24 [PMID: 24662920] (WB, Human)

Maria Berra C, Santos de Oliveira C, Carriao Machado Garcia C et al. Nucleotide excision repair activity on DNA damage induced by photoactivated methylene blue. Free Radic Biol Med 2013-04-05 [PMID: 23567189] (WB, Human)

Takedachi A, Saijo M, Tanaka K et al. DDB2 complex-mediated ubiquitylation around DNA damage is oppositely regulated by XPC and ku and contributes to the recruitment of XPA. Mol Cell Biol 2010-06-01 [PMID: 20368362] (ICC/IF, Human)

Rezvani HR, Mahfouf W, Ali N et al. Hypoxia-inducible factor-1alpha regulates the expression of nucleotide excision repair proteins in keratinocytes. Nucleic Acids Res 2010-01-01 [PMID: 19934262] (ICC/IF, Human)

de Feraudy S, Ridd K, Richards LM et al. The DNA damage-binding protein XPC is a frequent target for inactivation in squamous cell carcinomas. Am J Pathol 2010-08-01 [PMID: 20616346] (ICC/IF, Human)

Acu ID, Liu T, Suino-Powell K et al. Coordination of centrosome homeostasis and DNA repair is intact in MCF-7 and disrupted in MDA-MB 231 breast cancer cells. Cancer Res 2010-04-01 [PMID: 20388771] (ICC/IF, Human)

More publications at <http://www.novusbio.com/NB100-477>



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### Products Related to NB100-477

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NB820-59466	Raji Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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