Product Datasheet

XPB Antibody - BSA Free
NB100-61060

Unit Size: 100 ul

Store at 4C. Do not freeze.

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Reviews: 1 Publications: 3

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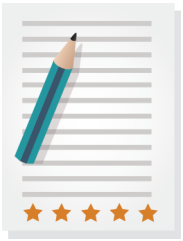
Updated 9/9/2025 v.20.1



NB100-61060

XPB Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description

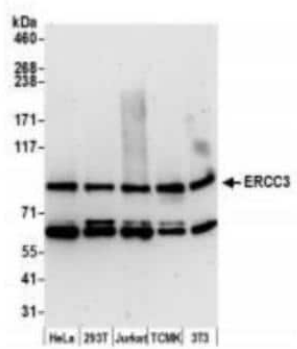
Description	Novus Biologicals Rabbit XPB Antibody - BSA Free (NB100-61060) is a polyclonal antibody validated for use in WB, ICC/IF, IP and ChIP. Anti-XPB Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	2071
Gene Symbol	ERCC3
Species	Human, Mouse, Rabbit, Virus
Reactivity Notes	Use in Epstein-Barr virus reported in scientific publication (PMID: 32434920). Rabbit reactivity reported from CiteAb.
Immunogen	The immunogen recognized by this antibody maps to a region between residue 732 and 782 of human excision repair cross-complementing rodent repair deficiency, complementation group 3 using the numbering given in entry NP_000113.1 (GeneID 2071).

Product Application Details

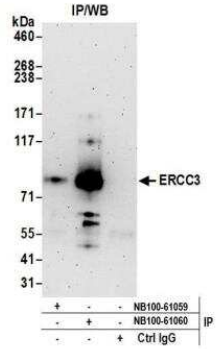
Applications	Western Blot, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunoprecipitation 2-5 ug/mg lysate, Chromatin Immunoprecipitation (ChIP)
Application Notes	Use in Chromatin Immunoprecipitation reported in scientific literature (PMID:32434920).

Images

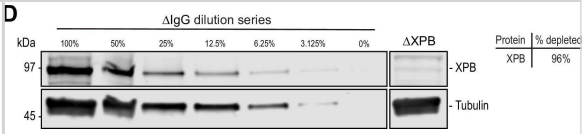
Western Blot: XPB Antibody [NB100-61060] - Whole cell lysate (15 ug) from HeLa, 293T, Jurkat, mouse TCMK-1, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit antiERCC3 antibody used for WB at 0.1 ug/mL. Detection: Chemiluminescence with an exposure time of 3 minutes.



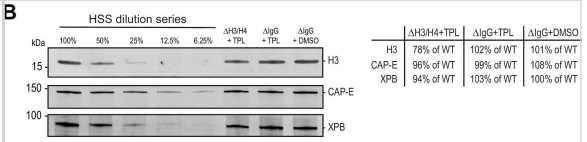
Immunoprecipitation: XPB Antibody [NB100-61060] - Detection of human ERCC3 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-ERCC3 antibody NB100-61060 used for IP at 3 ug per reaction. ERCC3 was also immunoprecipitated by rabbit anti-ERCC3 antibody NB100-61059. For blotting immunoprecipitated ERCC3, NB100-61060 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



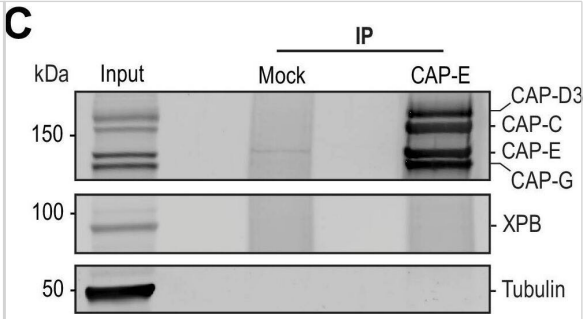
Western Blot: XPB Antibody [NB100-61060] - Immunodepletions and the effects of RNases and various transcription inhibitors on chromosome condensation and cell cycle state. Western blot for XPB and Tubulin in IgG or XPB-depleted extracts. Dilution series of IgG-depleted extracts was used to calculate the % depletion of XPB using quantitative fluorescence. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/35293859/) licensed under a CC-BY license.



Western Blot: XPB Antibody [NB100-61060] - Effects of triptolide & histone depletion on condensation using mouse sperm.(A) Representative fluorescence images of chromatid assembly at steady state with mouse sperm nuclei in egg extracts (180 min after sperm nuclei addition) in the presence of indicated inhibitors. Triptolide or DMSO control was added at 25 min after nuclei addition. Triptolide was added at 50 µM. (B) Western blot for histone H3, CAP-E, & XPB in histone H4K12ac or IgG-depleted extracts in the presence of triptolide (TPL) or DMSO. Relative percentage of protein remaining after indicated treatments is shown.Figure 5—figure supplement 1—source data 1.Source data for Figure 5—figure supplement 1B.Source data for Figure 5—figure supplement 1B. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35293859), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: XPB Antibody [NB100-61060] - The TFIIH complex is required for the enrichment of condensins on chromosomes.(A) Left: Representative immunofluorescence images of Xenopus sperm nuclei incubated with Mock or CAP-E depleted extracts for 180 min. Chromatids were labeled with Hoechst & anti-XPB antibodies. Right: Quantification of fluorescence intensity of XPB on chromatin, normalized to Mock depleted condition. n = 24 structures for each condition. Error bars represent SD, & 'NS' indicates no statistically significant difference (p > 0.001). A.U., arbitrary units. Two biological replicates were performed, quantified structures are from a single experiment. (B) Western blot for indicated proteins that copurify with anti-XPB or IgG beads isolated from HSS extracts. IP, immunoprecipitate. (C) Western blot for indicated proteins that copurify with anti-CAP-E or Mock-treated beads isolated from HSS extracts. For condensin subunit detection, the blot was probed simultaneously with the indicated antibodies. Beads were coupled to either anti-CAP-E or pre-immune serum ("Mock") & processed as indicated in the methods. IP, immunoprecipitate. (D) Representative immunofluorescence images of Xenopus sperm nuclei incubated with HSS extracts for 180 min. Chromatids were labeled with Hoechst & co-stained with anti-XPB & anti-CAP-E antibodies. Images of three representative individual chromatids are shown.Figure 3—figure supplement 1—source data 1.Source data for Figure 3—figure supplement 1B & C.Source data for Figure 3—figure supplement 1B & C. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35293859), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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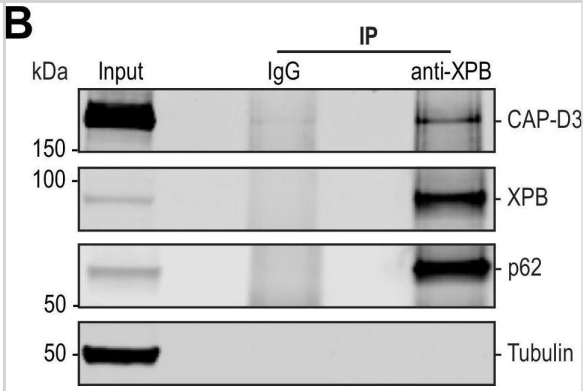

Publications

Haase J, Chen R, Parker WM et al. The TFIIH complex is required to establish and maintain mitotic chromosome structure eLife 2022-03-16 [PMID: 35293859] (ICC/IF, WB, IP, Xenopus)

Verma D, Church TM, Swaminathan S Epstein-Barr virus co-opts TFIIH component XPB to specifically activate essential viral lytic promoters Proc. Natl. Acad. Sci. U.S.A. 2020-05-20 [PMID: 32434920] (Chemotaxis, Virus)

Gray LT, Vallur AC, Eddy J, Maizels N. G quadruplexes are genomewide targets of transcriptional helicases XPB and XPD. Nat. Chem. Biol. 2014-04-01 [PMID: 24609361] (Chemotaxis, Human)

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Products Related to NB100-61060

NBL1-10321	XPB 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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