

# Product Datasheet

## RNA Polymerase II/POLR2A Antibody - BSA Free NBP2-32080

Unit Size: 100 ul

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

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**NBP2-32080****RNA Polymerase II/POLR2A Antibody - BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1.0 mg/ml
<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>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

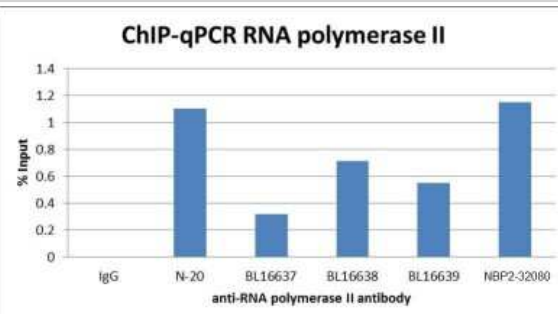
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit RNA Polymerase II/POLR2A Antibody - BSA Free (NBP2-32080) is a polyclonal antibody validated for use in IP and ChIP. Anti-RNA Polymerase II/POLR2A Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	5430
<b>Gene Symbol</b>	POLR2A
<b>Species</b>	Human
<b>Immunogen</b>	The immunogen this antibody was made to, maps to a region between residue 754 to 804 of human RNA Polymerase II using the numbering given in entry NP_000928.1 (GeneID 5430).

<b>Product Application Details</b>	
<b>Applications</b>	Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Immunoprecipitation 2 - 10 ug/mg lysate, Chromatin Immunoprecipitation (ChIP) 8 µg per IP

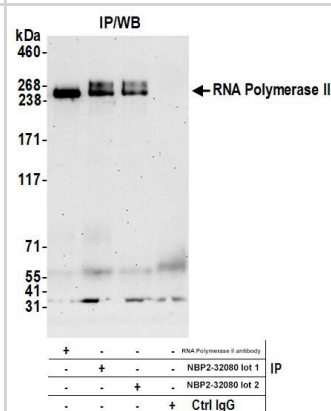


## Images

**Chromatin Immunoprecipitation: RNA Polymerase II/POLR2A Antibody [NBP2-32080]** - ChIP-qPCR analysis of RNA polymerase II binding at pause site of the Jun B gene. Chromatin isolated from one 15 cm plate of HeLa cells was immunoprecipitated with 8.0 ug of anti-RNA polymerase II antibodies and PCR amplified.



**Immunoprecipitation: Rabbit Polyclonal RNA Polymerase II/POLR2A Antibody [NBP2-32080]** - Detection of human RNA Polymerase II by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-RNA Polymerase II antibody (NBP2-32080 lot 2) used for IP at 6 ug per reaction. RNA Polymerase II was also immunoprecipitated by a previous lot of this antibody and a second antibody against a different epitope of RNA Polymerase II antibody. For blotting immunoprecipitated RNA Polymerase II, the second antibody was used at 1 µg/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



## Publications

Isa NF, Bensaudé O, Aziz NC, Murphy S. HSV-1 ICP22 Is a Selective Viral Repressor of Cellular RNA Polymerase II-Mediated Transcription Elongation Vaccines (Basel) 2021-09-22 [PMID: 34696162] (Chemotaxis, Human)

Guiró J, Fagbemi M, Tellier M et al. CAPTURE of the Human U2 snRNA Genes Expands the Repertoire of Associated Factors Biomolecules 2022-05-14 [PMID: 35625631] (Chemotaxis, Human)

Tellier M, Ansa G, Murphy S. Isoginkgetin and Madrasin are poor splicing inhibitors PLOS ONE 2024-10-21 [PMID: 39432454]

Lyu Y, Yang Y, Talwar V et al. Hypoxia-inducible factor 1 recruits FACT and RNF20/40 to mediate histone ubiquitination and transcriptional activation of target genes Cell Rep 2024-03-22 [PMID: 38517892] (ChIP, Human)

Tellier M, Ansa G, Murphy S. Differential effects of pre-mRNA splicing inhibitors on RNA polymerase II transcription bioRxiv 2023-01-17 (ChIP, Human)

Akama-Garren EH, Miller P, Carroll TM et al. Regulation of immunological tolerance by the p53-inhibitor iASPP Cell death & disease 2023-02-06 [PMID: 36746936] (ChIP-Seq)

Yang Y, Lu H, Chen C et al. HIF-1 Interacts with TRIM28 and DNA-PK to release paused RNA polymerase II and activate target gene transcription in response to hypoxia Nature communications 2022-01-14 [PMID: 35031618] (Chemotaxis)

Stavast CJ, Erkeland SJ. The Non-Canonical Aspects of MicroRNAs: Many Roads to Gene Regulation Cells 2019-11-19 [PMID: 31752361]

Chirackal Manavalan AP, Pilarova K, Kluge M et al. CDK12 controls G1/S progression by regulating RNAPII processivity at core DNA replication genes EMBO Rep. 2019-07-25 [PMID: 31347271] (IP, Human)

Tellier M, Chalmers R. Human SETMAR is a DNA sequence-specific histone-methylase with a broad effect on the transcriptome. Nucleic Acids Res. 2018-10-17 [PMID: 30329085] (Chemotaxis, Human)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-32080**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00005430-Q01-10ug	Recombinant Human RNA Polymerase II/POLR2A GST (N-Term) Protein

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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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