

# Product Datasheet

## RNA Polymerase II/POLR2A [p Thr4] Antibody - BSA Free NBP1-49546

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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Updated 10/23/2024 v.20.1

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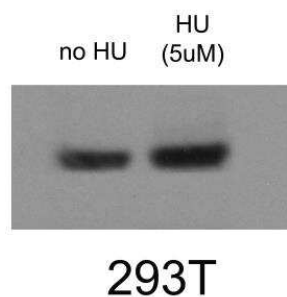
**NBP1-49546**

RNA Polymerase II/POLR2A [p Thr4] Antibody - BSA Free

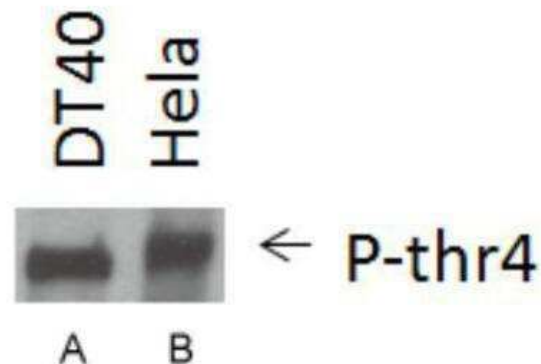
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1.1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS and 30% Glycerol
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	5430
<b>Gene Symbol</b>	POLR2A
<b>Species</b>	Human, Chicken, Drosophila, Yeast
<b>Specificity/Sensitivity</b>	This antibody is specific for the phosphorylated Threonine found in position 4 of the RNA polymerase II CTD heptad.
<b>Immunogen</b>	A synthetic peptide made to a phosphorylated Threonine (position 4) of the CTD heptad in the human RNA polymerase II protein [UniProt P24928]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Dot Blot
<b>Recommended Dilutions</b>	Western Blot 1:1000, Dot Blot 1:1000
<b>Application Notes</b>	This RNA polymerase II antibody is useful for dot blot and Western blot.

## Images

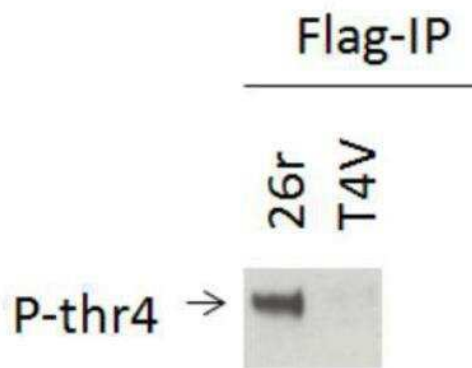
Western Blot: RNA Polymerase II/POLR2A [p Thr4] Antibody [NBP1-49546] - Western Blot analysis of RNA Pol II (pThr 4) in 293T cells. Image submitted via verified customer review.



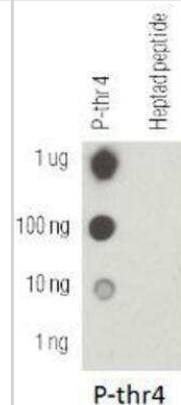
Western Blot: RNA Polymerase II/POLR2A [p Thr4] Antibody [NBP1-49546] - Analysis of RNA pol II CTD pT4 in A. DT40 cell lysate and B. HeLa cell lysate.



Western Blot: RNA Polymerase II/POLR2A [p Thr4] Antibody [NBP1-49546] - Flag-tagged Rpb1 was IP'd with Flag antibody. Western blotting was performed using P-thr4 antibody. 26r: Rpb1 with 26 all-consensus YSPTSPS repeat CTD. T4V: Rpb1 with 30 YSPVSPS repeat CTD.



Dot Blot: RNA Polymerase II/POLR2A [p Thr4] Antibody [NBP1-49546] - Dot blot analysis of RNA pol II CTD pT4 using phosphorylated and non-phosphorylated peptides.



## Publications

Kamieniarz-Gdula K, Gdula MR, Panser K et al. Selective Roles of Vertebrate PCF11 in Premature and Full-Length Transcript Termination Mol. Cell 2019-02-21 [PMID: 30819644] (WB, Human)

Allepuz-Fuster P, Martinez-Fernandez V, Garrido-Godino Ai et al. Rpb4/7 facilitates RnA polymerase II CTD dephosphorylation. Nucleic Acids Res. 2014-11-21 [PMID: 25416796] (WB, Yeast)

Hsin JP, Xiang K, Manley JL. Function and control of RNA polymerase II CTD phosphorylation in vertebrate transcription and RNA processing. Mol. Cell. Biol. 2014-04-21 [PMID: 24752900] (WB, Human)

Hsin JP, Sheth A, Manley JL. RNAP II CTD phosphorylated on threonine-4 is required for histone mRNA 3' end processing. Science;334(6056):683-6. 2011-11-04 [PMID: 22053051] (WB, Human, Drosophila, Yeast)





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### **Products Related to NBP1-49546**

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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
NBP1-49546B	RNA Polymerase II/POLR2A [p Thr4] Antibody [Biotin]

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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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