

# Product Datasheet

## RNA Polymerase II/POLR2A Antibody (4H8) [Alexa Fluor® 405] NB200-598AF405

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NB200-598AF405**

RNA Polymerase II/POLR2A Antibody (4H8) [Alexa Fluor® 405]

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C in the dark.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4H8
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Conjugate</b>	Alexa Fluor 405
<b>Purity</b>	Protein G purified
<b>Buffer</b>	50mM Sodium Borate
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	5430
<b>Gene Symbol</b>	POLR2A
<b>Species</b>	Human, Mouse, Yeast, Primate (Negative)
<b>Reactivity Notes</b>	Does not cross react with monkey.
<b>Specificity/Sensitivity</b>	Please note that this antibody detects both unphosphorylated and phosphorylated forms of the protein. When using this antibody in western blot and IP, it recognizes both the I10 and IIA form of RPB1 (ie the largest RNAPII subunit). These different forms of RPB1 (as seen in gels) have traditionally been loosely defined as 'hyper-' and 'hypo-phosphorylated', respectively. Here, however, it is important to remember that RPB1 contains no less than 52 repeats of a heptapeptide (TSPTSPS) that can be phosphorylated at different positions (Tyr1, Ser2, Thr4, Ser5 and Ser7; this antibody was raised against a synthetic peptide with 10 of these repeats, mostly but probably not entirely, chemically phosphorylated at Ser5). So, when we say that it recognizes both forms (I10/hyper-phos and IIA/hypo-phos), it might really just mean that the antibody recognizes a few phosphorylated Ser5s among 52 otherwise mostly un-phosphorylated repeats. Alternatively, it might conceivably (though less likely) recognize UN-phosphorylated repeats as there might conceivably be a few of those even in the I10/hyper-phos RPB1 form.'
<b>Immunogen</b>	10 repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-Ser 5 YSPTSpPS (Human). [UniProt# P24928]

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<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Flow (Intracellular), Chromatin Immunoprecipitation (ChIP), CyTOF-ready
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.





### **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 NB200-598AF405**

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NBP1-97005AF405	Mouse IgG1 Isotype Control (MG1) [Alexa Fluor® 405]
NB200-598AF488	RNA Polymerase II/POLR2A Antibody (4H8) [Alexa Fluor® 488]
H00005430-Q01-10ug	Recombinant Human RNA Polymerase II/POLR2A GST (N-Term) Protein
H00006908-Q01-10ug	Recombinant Human TATA binding protein TBP 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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