

# Product Datasheet

## RNA Polymerase II/POLR2A Antibody (4H8) [Alexa Fluor® 594]

**NB200-598AF594**

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NB200-598AF594**

RNA Polymerase II/POLR2A Antibody (4H8) [Alexa Fluor® 594]

<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 594
<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.



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### Products Related to NB200-598AF594

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NBP1-97005AF594	Mouse IgG1 Isotype Control (MG1) [Alexa Fluor® 594]
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
NBP1-87785PEP	RNA Polymerase II/POLR2A Recombinant Protein Antigen

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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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