# **Product Datasheet**

# RNA Polymerase II/POLR2A Antibody (4H8) [Alexa Fluor® 488] NB200-598AF488

Unit Size: 0.1 ml

Store at 4C in the dark.

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#### NB200-598AF488

RNA Polymerase II/POLR2A Antibody (4H8) [Alexa Fluor® 488]

Product Information           Unit Size         0.1 ml           Concentration         Please see the vial label for concentration. If unlisted please contact technical services.           Storage         Store at 4C in the dark.           Clonality         Monoclonal           Clone         4H8           Preservative         0.05% Sodium Azide           Isotype         IgG1           Conjugate         Alexa Fluor 488           Purity         Protein G purified           Buffer         SomM Sodium Borate           Product Description         Host           Host         Mouse           Gene ID         5430           Gene Symbol         POLR2A           Species         Human, Mouse, Yeast, Primate (Negative)           Reactivity Notes         Does not cross react with monkey.           Specificity/Sensitivity         Please note that this anibody detects both unphosphorylated and probosphorylated forms of the protein. When using this antibady in western blot and IP, it recognizes both the IIO and IIA form of RPB1 (ie the largest RNAPII submit). These different forms of RPB1 (as seen in gels) have traditionally been loosely defined as 'hyper-' and 'hypo-phosphorylated different positions (Tyr1, Ser2, Thr4, Ser5 and Ser7, this antibody un western blot and Ser recognizes both thermolyper spectively. Here, however, it is important to remember that RPB1 contains no less than 52 repeats or a heptapetide (TSPTSPS)	, , , , , , , , , , , , , , , , , , ,	
ConcentrationPlease see the vial label for concentration. If unlisted please contact technical services.StorageStore at 4C in the dark.ClonalityMonoclonalClone4H8Preservative0.05% Sodium AzideIsotypeIgG1ConjugateAlexa Fluor 488PurityProtein G purifiedBuffer50mM Sodium BorateProduct DescriptionMouseGene ID5430Gene SymbolPOLR2ASpeciesHuman, Mouse, Yeast, Primate (Negative)Reactivity NotesDoes not cross react with monkey.SpeciesDoes not cross react with monkey.Specificity/SensitivityPlease note that this antibody detects both unphosphorylated and phosphorylated forms of RPB1 (ie the largest RNAPII subunit). These different forms of RPB1 (is the starest as synthetic peptide with 10 of these repeats, mostly but probably not entirely, chemically phosphorylated as Song 4.2 (TSYTSPS) that can be phosphorylated different positions (IO/hyper-phos and II/A/hypo-phos), it might conceivably (theough the 10 and II/A form of RPB1 (is the largest RNAPII subunit). These different forms of RPB1 (as tas realed against a synthetic peptide with 10 of these repeats, mostly but probably not entirely, chemically phosphorylated as Song 4.3 (IO/hyper-phos), it might conceivably (the out) recognizes both forms (IO/hyper-phos and II/A/hypo-phos), it might conceivably (be a few of those even in the 10/hyper-phos RPB1 form.Immunogen10 repeats of synthetic peptide YPTSPS using chemically synthesized	Product Information	
services.StorageStore at 4C in the dark.ClonalityMonoclonalClone4H8Preservative0.05% Sodium AzideIsotypeIgG1ConjugateAlexa Fluor 488PurityProtein G purifiedBuffer50mM Sodium BorateProduct DescriptionMouseGene ID5430Gene SymbolPOLR2ASpeciesHuman, Mouse, Yeast, Primate (Negative)Reactivity NotesDoes not cross react with monkey.Specificity/SensitivityPlease 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 IIO and IIA form of RPB1 (is the largest RNAPII suburb). These different forms of RPB1 can be phosphorylated and sphosphorylated and sphosphorylated and sphosphorylated and sphosphorylated and sphosphorylated and sphosphorylated forms of the protein. When using this antibody in western blot and IP, it recognizes both the IIO and IIA form of RPB1 (is the largest RNAPII suburb). These different forms of RPB1 contains no less than 52 repeats of a heptapepide (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 reposes, mostly but probably not entrely, chemically phosphorylated at Ser5 anong 52 otherwise mostly unphosphorylated at Ser5 anom feally isot mean that the antibody recognize UN-phosphorylated forms of IO/hyper-phos RPB1 form.Immunogen10 repeats of synthetic peptide YSPTSPS using chemically synthesized	Unit Size	0.1 ml
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PurityProtein G purifiedBuffer50mM Sodium BorateProduct DescriptionHostMouseGene ID5430Gene SymbolPOLR2ASpeciesHuman, Mouse, Yeast, Primate (Negative)Reactivity NotesDoes not cross react with monkey.Specificity/SensitivityPlease 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 IIO 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 aldifferent positions (Tyr1, Ser2, Tn4, 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 (IIO/hyper-phos and IIA/nypo-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 be a few of those even in the IIO/hyper-phos RPBI form.'Immunogen10 repeats of synthetic peptide YSPTSPS using chemically synthesized	Isotype	IgG1
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	Specificity/Sensitivity	phosphorylated forms of the protein. When using this antibody in western blot and IP, it recognizes both the IIO 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 (IIO/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
	Immunogen	



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Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready
Recommended Dilutions	Western Blot, Flow Cytometry, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Flow (Intracellular), Chromatin Immunoprecipitation (ChIP), CyTOF-ready

#### **Publications**

Lin J. R, Izar B, et al. Highly multiplexed immunofluorescence imaging of human tissues and tumors using t-CyCIF and conventional optical microscopes. Elife 2018-07-11 [PMID: 29993362]

Details:

Citation using the Alexa Fluor 488 format of this antibody.





# 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@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

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H00006908-Q01-10ug	Recombinant Human TATA binding protein TBP GST (N-Term) Protein

#### Limitations

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