# **Product Datasheet**

# RNA Polymerase II/POLR2A Antibody (4H8) [Janelia Fluor® 525] NB200-598JF525

Unit Size: 0.1 ml

Store at 4C in the dark.

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## NB200-598JF525

RNA Polymerase II/POLR2A Antibody (4H8) [Janelia Fluor® 525]

loosely defined as 'hyper-' and 'hypo-phosphorylated', respectively. Here, however, it is important to remember that RPB1 contains no less than 52 repeat 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 (II0/hyper-phos and IIA/hypo-phos), it might really just mean that the antibody recognizes a few phosphorylated Ser5s among 52 otherwise mostly unphosphorylated repeats. Alternatively, it might conceivably (though less likely) recognize UN-phosphorylated repeats as there might conceivably be a few of those even in the II0/hyper-phos RPB1 form.'  Immunogen  10 repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-Ser 5 YSPTSpPS (Human). [UniProt# P24928]  Notes  Sold under license from the Howard Hughes Medical Institute, Janelia Researc Campus.  Product Application Details  Applications  Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready		
Please see the vial label for concentration. If unlisted please contact technical services.   Storage	Product Information	
Storage Store at 4C in the dark.  Clonality Monoclonal  Clone 4H8  Preservative 0.05% Sodium Azide  Isotype IgG1  Conjugate Janelia Fluor 525  Purity Protein G purified  Buffer 50mM Sodium Borate  Product Description  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 antibody detects both unphosphorylated and phosphorylated forms of the protein. When using this antibody in western blot and IP, it recognizes both the IID and IIA from G RPB1 (ie the largest RNAPII subunit). These different forms of RPB1 (as seen in gels) have traditionally bee loosely defined as hyper- and hypo-phosphorylated, respectively. Here, however, it is important to remember that RPB1 contains no less than 52 repect of a heptapeptide (TSSTSSP) that can be phosphorylated afferent positions (Tyr1, Ser2, Thr4, Ser5 and Ser7; this antibody was raised against a synthetic peptide with 10 of these repeats, mostly but posphorylated are personably for these repeats, mostly but posphorylated are personably in the internatively, it might really just mean that the antibody recognize UN-phosphorylated are peats as there might conceivably be a tew of those even in the IID/hyper-phos RPB1 form.  Immunogen 10 repeats of synthetic peptide VSPTSPS using chemically synthesized phosphor-Ser 5 YSPTSPPS (Human). [UniProt# P24928]  Notes  Product Application Details  Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready	Unit Size	0.1 ml
Clone	Concentration	·
Clone 4H8  Preservative 0.05% Sodium Azide  Isotype 1gG1  Conjugate Janelia Fluor 525  Purity Protein G purified  Buffer 50mM Sodium Borate  Product Description  Host Mouse  Gene ID 5430  Gene Symbol POLRZA  Species Human, Mouse, Yeast, Primate (Negative)  Reactivity Notes Does not cross react with monkey.  Specificity/Sensitivity 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 IIO and IA form of RPB1 (et he largest RNAPII subunit). These different forms of RPB1 (as seen in gels) have traditionally bee loosely defined as 'hyper' and 'hypo-phosphorylated', respectively. Here, however, it is important to remember that RPB1 contains oles than 52 repect 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 (IIIO/hyper-phos and IIA/hypo-phos), it might really just mean that the antibody recognizes a few phosphorylated Ser5s among 52 otherwise mostly unphosphorylated at Unphosphorylated at epeats as there might conceivably be a few of those even in the IIIO/hyper-phos RPB1 form.'  Immunogen 10 repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-Ser 5 YSPTSPPS (Human). [UniProt# P24928]  Notes  Product Application Details  Applications Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin immunoprecipitation (ChIP), CyTOF-ready	Storage	Store at 4C in the dark.
Preservative   0.05% Sodium Azide	Clonality	Monoclonal
IgG1	Clone	4H8
Conjugate  Janelia Fluor 525  Purity  Protein G purified  Buffer  50mM Sodium Borate  Product Description  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 antibody detects both unphosphorylated and phosphorylated forms of the protein. When using this antibody in western blot and IP, it recognizes both the Illo and IIR form of RPB1 (ie the largest RNAPII subunit). These different forms of RPB1 (as seen in gels) have traditionally beta lossely defined as "hyper-" and "hypo-phosphorylated," respectively. Here, however, it is important to remember that RPB1 contains no less than 52 repect 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 probasily not entirely, chemically phosphorylated at Ser5). So, when we say that it recognizes both forms (Illo/hyper-phos and Ill/hypo-phos), it might really just mean that the antibody recognizes a few phosphorylated Ser5s among 52 otherwise mostly unphosphorylated repeats. Alternatively, it might conceivably (though less likely) recognize Un-phosphorylated repeats as there might conceivably though less likely) recognize Un-phosphorylated repeats as there might conceivably be a few of those even in the Illo/hyper-phos RPB1 form.  Immunogen  10 repeats of synthetic peptide YSPTSPS using chemically synthesized phosphorylated repeats as the remitted conceivably with secondary phosphorylated repeats as the remitted conceivably though less likely) recognize Un-phosphorylated repeats as there might conceivably though less likely) recognize Un-phosphorylated repeats as the remitted conceivably though less likely) recognize Un-phosphorylated repeats as the remitted conceivably (though less likely) recognize Un-phosphorylated repeats as there might conceivably though less likely) recognize U	Preservative	0.05% Sodium Azide
Purity Protein G purified  Buffer 50mM Sodium Borate  Product Description  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 antibody detects both unphosphorylated and phosphorylated forms of the protein. When using this antibody in western blot and IP, it recognizes both the III oand IIA form of RPB1 (le the largest RNAPII subunit). These different forms of RPB1 (as seen in gels) have traditionally be loosely defined as "hyper-" and "hypo-phosphorylated," respectively. Here, however, it is important to remember that RPB1 contains no less than 52 repect 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 (IIIO/hyper-phos and IIA/hypo-phos), it might really just mean that the antibody recognizes a few phosphorylated Ser5s among 52 to therwise mostly unphosphorylated repeats. Alternatively, it might conceivably (though less likely) recognize Un-phosphorylated repeats as there might conceivably the a few of those even in the IIO/hyper-phos RPB1 form.'  Immunogen 10 repeats of synthetic peptide YSPTSPS using chemically synthesized phosphorylated repeats as the might conceivably with phospho-Ser 5 YSPTSpPS (Human). [UniProt# P24928]  Notes Sold under license from the Howard Hughes Medical Institute, Janelia Researc Campus.  Product Application Details  Applications Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunoprecipitation (ChIP), CyTOF-ready	Isotype	IgG1
Buffer   SomM Sodium Borate	Conjugate	Janelia Fluor 525
Product Description  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 antibody detects both unphosphorylated and phosphorylated forms of the protein. When using this antibody in western blot and IP, it recognizes both the II0 and IIA form of RPB1 (is the largest RNAPIII subunit). These different forms of RPB1 (as seen in gels) have traditionally bet loosely defined as 'hyper-' and 'hypo-phosphorylated', respectively. Here, however, it is important to remember that RPB1 contains no less than 52 repect 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 (II0/hyper-phos and IIA/hypo-phos), it might really just mean that the antibody recognize uN-phosphorylated ser6s among 52 otherwise mostly unphosphorylated repeats. Alternatively, it might conceivably (though less likely) recognize uN-phosphorylated repeats as there might conceivably be a few of those even in the II0/hyper-phos RPB1 form.'  Immunogen  10 repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-Ser 5 YSPTSpPS (Human). [UniProt# P24928]  Notes  Product Application Details  Applications  Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin immunoprecipitation (ChIP), CyTOF-ready	Purity	Protein G purified
Host	Buffer	50mM Sodium Borate
Gene Symbol POLR2A Species Human, Mouse, Yeast, Primate (Negative) Reactivity Notes Does not cross react with monkey.  Specificity/Sensitivity 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 II0 and IIA form of RPB1 (ie the largest RNAPII subunit). These different forms of RPB1 (as seen in gels) have traditionally be loosely defined as 'hyper-1 and 'hypo-phosphorylated', respectively. Here, however, it is important to remember that RPB1 contains no less than 52 repet 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 (II0/hyper-phos and IIA/hypo-phos), it might really just mean that the antibody recognize UN-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 II0/hyper-phos RPB1 form.'  Immunogen  10 repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-Ser 5 YSPTSpPS (Human). [UniProt# P24928]  Notes  Sold under license from the Howard Hughes Medical Institute, Janelia Researc Campus.  Product Application Details  Applications  Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready	<b>Product Description</b>	
Species	Host	Mouse
Reactivity Notes  Does not cross react with monkey.  Specificity/Sensitivity  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 II0 and IIA form of RPB1 (ie the largest RNAPII subunit). These different forms of RPB1 (as seen in gels) have traditionally be loosely defined as 'hyper-' and 'hypo-phosphorylated', respectively. Here, however, it is important to remember that RPB1 contains no less than 52 reper of a heptapeptide (TSPTSPS) that can be phosphorylated at different positions (Tyr1, Ser2, Thr4, Ser5 and Ser7; this arbidody 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 (II0/hyper-phos and IIA/hypo-phos), it might really just mean that the antibody recognizes a few phosphorylated Ser5s among 52 otherwise mostly unphosphorylated repeats. Alternatively, it might conceivably (though less likely) recognize UN-phosphorylated repeats as there might conceivably be a few of those even in the II0/hyper-phos RPB1 form.'  Immunogen  Immunogen  10 repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-Ser 5 YSPTSpPS (Human). [UniProt# P24928]  Notes  Product Application Details  Applications  Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready	Gene ID	5430
Please note tross react with monkey.	Gene Symbol	POLR2A
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Notes  Sold under license from the Howard Hughes Medical Institute, Janelia Researd Campus.  Product Application Details  Applications  Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready	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 unphosphorylated repeats. Alternatively, it might conceivably (though less likely) recognize UN-phosphorylated repeats as there might conceivably be a few of those even in the IIO/hyper-phos RPB1 form.'
Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus.  Product Application Details  Applications  Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready	Immunogen	
Applications  Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready	Notes	Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus.
Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready	Product Application Details	
IN LIBERAL IN A DIVELO CONTRACTOR		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	Recommended Dilutions	



Optimal dilution of this antibody should be experimentally determined.





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Protein

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NBP1-87785PEP RNA Polymerase II/POLR2A Recombinant Protein Antigen

NB600-501 beta-Actin Antibody (AC-15)

#### 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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