

## Recombinant RNA Polymerase II CTD Repeat YSPTSPS (Phospho S5) Antibody

Rabbit Monoclonal Antibody [Clone POLR2A/9089R]

Catalog No	Format	Size
5430-RBM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5430-RBM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5430-RBM4-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

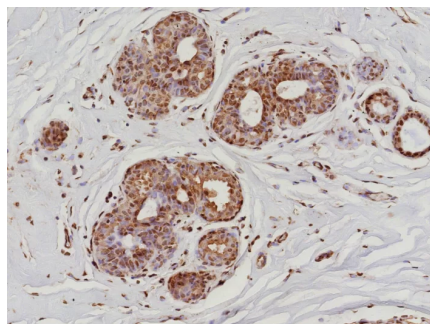
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

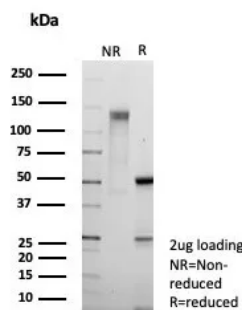
<b>Clone</b>	POLR2A/9089R
<b>Gene Name</b>	POLR2A
<b>Immunogen</b>	Ten repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-Ser5
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG / Kappa
<b>Mol. Weight of Antigen</b>	192-253kDa
<b>Cellular Localization</b>	Nucleus
<b>Species Reactivity</b>	Human, Saccharomyces Cerevisiae
<b>Positive Control</b>	PC3, HAP1, HepG2, K-562, NIH3T3 or T47D cells. Human testis.

\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant RNA Polymerase II CTD Repeat YSPTSPS (Phospho S5) Antibody



Formalin-fixed, paraffin-embedded human breast cancer stained with RNA Pol II Recombinant Rabbit Monoclonal Antibody (POLR2A/9089R). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



SDS-PAGE Analysis of Purified RNA Pol II Recombinant Rabbit Monoclonal (POLR2A/9089R). Confirmation of Purity and Integrity of Antibody.

### **Specificity & Comments**

RNA polymerase II (Pol II) is an enzyme that is composed of 12 subunits and is responsible for the transcription of protein-coding genes. Transcription initiation requires Pol II-mediated recruitment of transcription machinery to a target promoter, thereby allowing transcription to begin. The largest subunit of Pol II (referred to as RPB1 or RPB205) is a 1,840 amino acid protein that contains one C2H2-type zinc finger and a C-terminal domain comprised of several heptapeptide repeats. Although Pol II function requires the cooperation of all twelve subunits, the largest subunit conveys Pol II catalytic activity and, together with the second largest subunit, forms the active center of the Pol II enzyme. Additionally, the large subunit participates in forming the DNA-binding domain of Pol II, a groove that is necessary for transcription of the DNA template. Without proper function of the large subunit, mRNA synthesis and subsequent transcription elongation cannot occur.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

200ug/ml of Ab purified from Bioreactor Concentrate. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### **Research Areas**

Cardiovascular, Developmental Biology, Infectious Disease, Signal Transduction, Transcription Factors

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