

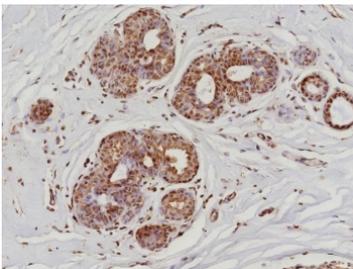
## Recombinant Phospho-RNA Polymerase II CTD Repeat YSPTSPS Antibody / pS5 [clone POLR2A/9089R] (V5521)

| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V5521-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V5521-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V5521SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

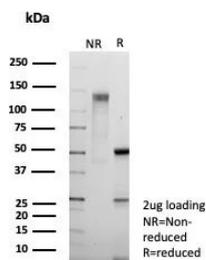
Recombinant **RABBIT MONOCLONAL**

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|                           |  |
|---------------------------|--|
| <b>Availability</b>       | 1-3 business days  |
| <b>Species Reactivity</b> | Human  |
| <b>Format</b>             | Purified   |
| <b>Host</b>               | Rabbit   |
| <b>Clonality</b>          | Recombinant Rabbit Monoclonal  |
| <b>Isotype</b>            | Rabbit IgG, kappa  |
| <b>Clone Name</b>         | POLR2A/9089R   |
| <b>Purity</b>             | Protein A/G affinity   |
| <b>UniProt</b>            | P24928   |
| <b>Localization</b>       | Nucleus  |
| <b>Applications</b>       | Immunohistochemistry (FFPE) : 1-2ug/ml   |
| <b>Limitations</b>        | This recombinant Phospho-RNA Polymerase II CTD Repeat YSPTSPS antibody is available for research use only. |



IHC staining of FFPE human breast cancer tissue with recombinant Phospho-RNA Polymerase II CTD Repeat YSPTSPS antibody (clone POLR2A/9089R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant Phospho-RNA Polymerase II CTD Repeat YSPTSPS antibody (POLR2A/9089R) as confirmation of integrity and purity.

## Description

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.

## Application Notes

Optimal dilution of the recombinant Phospho-RNA Polymerase II CTD Repeat YSPTSPS antibody should be determined by the researcher.

## Immunogen

Ten repeats of synthetic peptide YSPTSPS with phosphorylated serine 5 was used as the immunogen for the recombinant Phospho-RNA Polymerase II CTD Repeat YSPTSPS antibody.

## Storage

Aliquot the recombinant Phospho-RNA Polymerase II CTD Repeat YSPTSPS antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.