

For Research Use Only

# Phospho-POLR2A (Ser2) Recombinant antibody

Catalog Number: 84974-1-RR



## Basic Information

Catalog Number:

84974-1-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC137231

GeneID (NCBI):

5430

UNIPROT ID:

P24928

Full Name:

polymerase (RNA) II (DNA directed) polypeptide A, 220kDa

Calculated MW:

1970 aa, 217 kDa

Observed MW:

250 kDa

Purification Method:

Protein A purification

CloneNo.:

241829B4

Recommended Dilutions:

WB 1:5000-1:50000

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : HEK-293 cells, λ phosphatase treated HEK-293 cells

## Background Information

DNA-directed RNA polymerase II subunit RPB1 is the catalytic core component of DNA-dependent RNA polymerase II (Pol II). So that the information encoded in DNA can be used, RNA polymerase II makes copies of specific genes. To ensure that RNA polymerase II copies the correct genes at the correct time, a group of regulatory proteins are needed to control its activity. Many of these proteins interact with RNA polymerase II at a region known as the C-terminal domain, or CTD for short. For example, before RNA polymerase can make a full copy of a gene, a small molecule called a phosphate group must first be added to CTD at specific units known as Ser2. (PMID: 31385803)

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

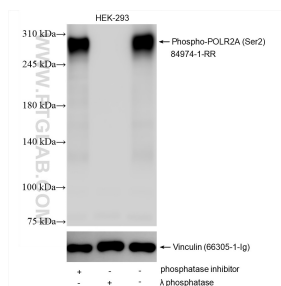
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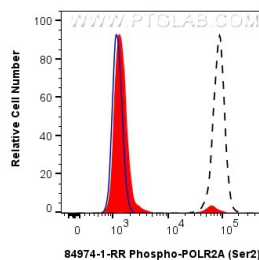
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## Selected Validation Data



Non-treated HEK-293 cells, phosphatase inhibitor treated HEK-293 cells and  $\lambda$  phosphatase treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 84974-1-RR (Phospho-POLR2A (Ser2) antibody at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (66305-1-Ig) antibody as a loading control.



$1 \times 10^6$   $\lambda$  phosphatase treated HEK-293 cells were intracellularly stained with 0.06  $\mu$ g Phospho-POLR2A (Ser2) Recombinant antibody (84974-1-RR, Clone:241829B4) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06  $\mu$ g Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.