

# Phospho-POLR2A CTD-S2 Rabbit pAb

Catalog No.: AP0749 **4 Publications**

## Basic Information

### Observed MW

260kDa

### Calculated MW

217kDa

### Category

Primary antibody

### Applications

WB,IP,ELISA

### Cross-Reactivity

Human

## Background

This gene encodes the largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a carboxy terminal domain composed of heptapeptide repeats that are essential for polymerase activity. These repeats contain serine and threonine residues that are phosphorylated in actively transcribing RNA polymerase. In addition, this subunit, in combination with several other polymerase subunits, forms the DNA binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA.

## Recommended Dilutions

**WB** 1:1000 - 1:2000

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Contact

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## Immunogen Information

### Gene ID

5430

### Swiss Prot

P24928

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; NEDHIB; RplILS; hsRPB1; hRPB220; Phospho-POLR2A CTD-S2

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

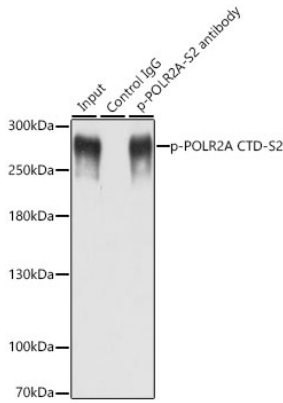
Affinity purification

### Storage

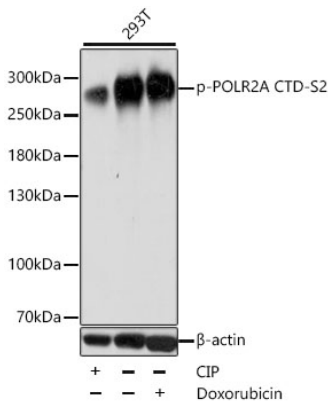
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

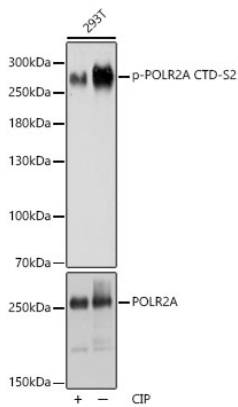
## Validation Data



Immunoprecipitation analysis of 200 µg extracts of MCF-7 cells, using 3 µg Phospho-POLR2A CTD-S2 antibody (AP0749). Western blot was performed from the immunoprecipitate using Phospho-POLR2A-S2 pAb (AP0749) at a dilution of 1:1000. MCF7 cells were treated with nocodazole (50 ng/mL) at 37°C for 20 hours.



Western blot analysis of lysates from 293T cells, using Phospho-POLR2A CTD-S2 Rabbit pAb (AP0749) at 1:1000 dilution. 293T cell lysate were treated with CIP (20ul CIP for each 400ul cell lysate) at 37°C for 1 hour or treated with Doxorubicin (0.5uM) for 24 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Western blot analysis of lysates from 293T cells, using Phospho-POLR2A CTD-S2 Rabbit pAb (AP0749) at 1:1000 dilution or POLR2A antibody (A2107). 293T cells were treated with CIP(20uL/400ul) at 37°C for 1 hour. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.