

Phospho-POLR2A-S2 Rabbit Polyclonal Antibody



CABP0749

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

260kDa

Calculated MW:

63kDa/217kDa

Applications:

WB IF IP

Reactivity:

Human, Rat

Antibody Information

Recommended dilutions:

WB 1:1000 - 1:2000 IF 1:50
- 1:100 IP 1:50 - 1:100

Source:

Rabbit

Isotype:

IgG

Purification:

Affinity purification

Protein 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.

Immunogen information

Gene ID:

5430

Uniprot

P24928

Synonyms:

POLR2A; POLR2; POLRA; RPB1; RPBh1; RPO2; RPOL2; RplIILS;
hRPB220; hsRPB1; Pol II

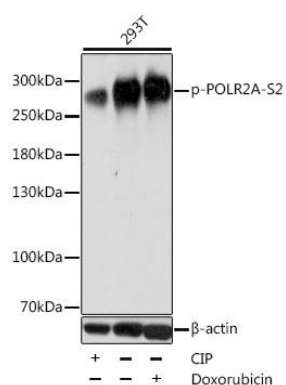
Immunogen:

A phospho specific peptide corresponding to residues surrounding S2 of human POLR2A

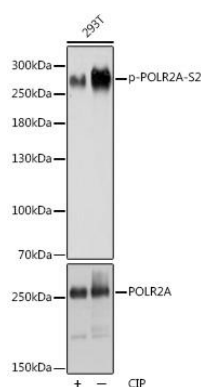
Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

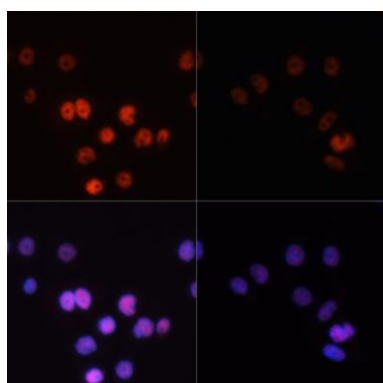
Product Images



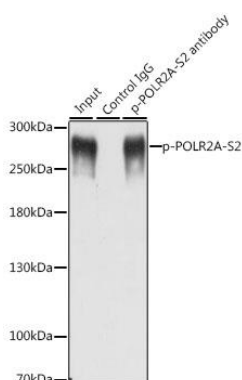
Western blot analysis of extracts of 293T cells, using Phospho-POLR2A-S2 antibody (CABP0749) at 1:1000 dilution. 293T cell lysate were treated by CIP (20ul CIP for each 400ul cell lysate) at 37°C for 1 hour or treated by Doxorubicin (0.5uM) for 24 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (CABM00020). Exposure time: 1s.



Western blot analysis of extracts of 293T cells, using Phospho-POLR2A-S2 pAb (CABP0749) at 1:1000 dilution or POLR2A antibody (CAB2107). 293T cells were treated by CIP (20uL/400ul) at 37°C for 1 hour. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (CABM00020). Exposure time: 1s.



Immunofluorescence analysis of HeLa cells using Phospho-POLR2A-S2 antibody (CABP0749) at dilution of 1:100. HeLa cells were treated by nocodazole (50 ng/mL) at 37°C for 20 hours (left). Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of MCF-7 cells, using 3 ug Phospho-POLR2A-S2 pAb (CABP0749). Western blot was performed from the immunoprecipitate using Phospho-POLR2A-S2 pAb (CABP0749) at a dilution of 1:1000. MCF7 cells were treated by nocodazole (50 ng/mL) at 37°C for 20 hours.