

Phospho-POLR2A CTD-S7 Rabbit pAb

Catalog No.: AP0969 **1 Publications**

Basic Information

Observed MW

270kDa

Calculated MW

217kDa

Category

Primary antibody

Applications

WB, IHC-P, ELISA, CHIP

Cross-Reactivity

Human, Mouse, Rat

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 1:500 - 1:1000

IHC-P 1:50 - 1:200

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

ChIP 5µg antibody for 10µg-15µg of Chromatin

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-S7

Product Information

Source

Rabbit

Isotype

IgG

Purification

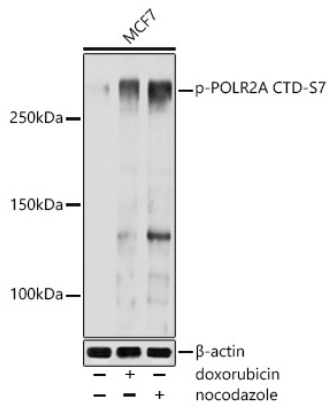
Affinity purification

Storage

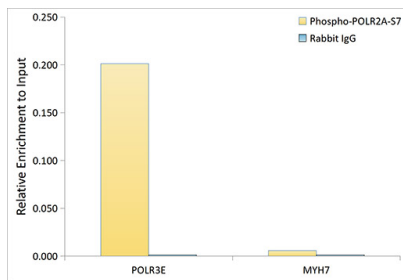
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

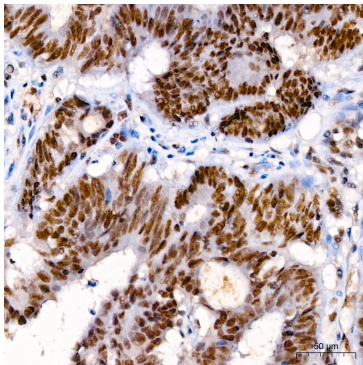
Validation Data



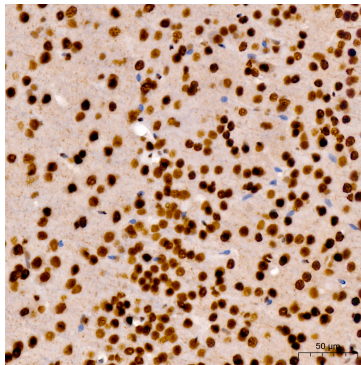
Western blot analysis of lysates from MCF7 cells, using Phospho-POLR2A CTD-S7 Rabbit pAb (AP0969) at 1:1000 dilution. MCF7 cells were treated with Doxorubicin (0.5 μM) at 37°C for 24 hours. MCF7 cells were treated with nocodazole (50 ng/ml) at 37°C for 20 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



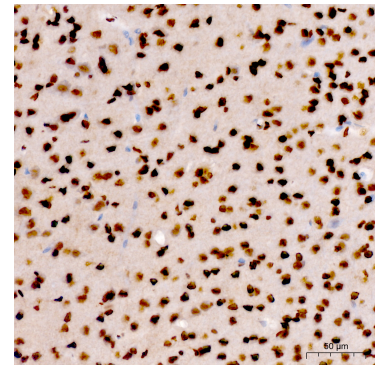
Chromatin immunoprecipitation was performed with cross-linked chromatin from HeLa cells, using Phospho-POLR2A CTD-S7 Rabbit pAb (AP0969) and rabbit IgG (AC005). The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram compares the ratio of the immunoprecipitated DNA versus the input.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using Phospho-POLR2A CTD-S7 Rabbit pAb (AP0969) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain using Phospho-POLR2A CTD-S7 Rabbit pAb (AP0969) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain using Phospho-POLR2A CTD-S7 Rabbit pAb (AP0969) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.