AP0969

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Phospho-POLR2A CTD-S7 Rabbit pAb

Catalog No.: AP0969 **1 Publications**

Basic Information

Observed MW
270kDa

Calculated MW
217kDa

Category
Polyclonal Antibody

Applications
WB,IHC-P,ChIP,ELISA

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

Immunogen Information

Gene ID
5430

Swiss Prot
P24928

Immunogen
A phospho specific peptide corresponding to residues surrounding S7 of human POLR2A CTD repeat YSPTSPS.

Synonyms
RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; NEDHIB; RpIILS; hsRPB1; hRPB220; Phospho-POLR2A CTD-S7

Contact

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Product Information

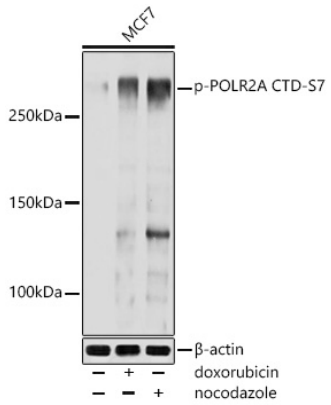
Source
Rabbit

Isotype
IgG

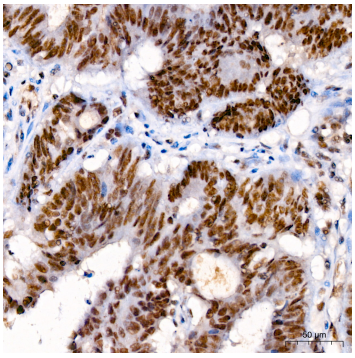
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

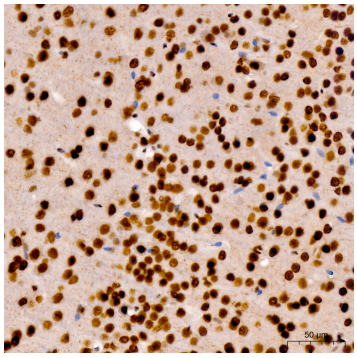
Validation Data



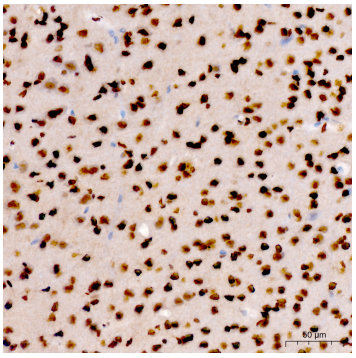
Western blot analysis of lysates from MCF7 cells, using Phospho-POLR2A CTD-S7 Rabbit pAb (AP0969) at 1:1000 dilution.MCF7 cells were treated by Doxorubicin (0.5 uM) at 37℃ for 24 hours.MCF7 cells were treated by nocodazole (50 ng/ml) at 37℃ for 20 hours.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L)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



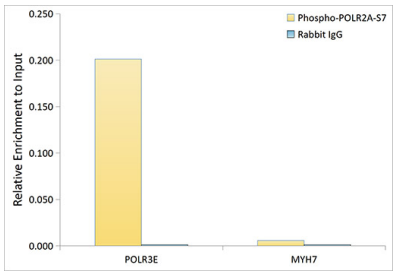
Immunohistochemistry analysis of Phospho-POLR2A CTD-S7 in paraffin-embedded human colon carcinoma using Phospho-POLR2A CTD-S7 Rabbit pAb (AP0969) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-POLR2A CTD-S7 in paraffin-embedded mouse brain using Phospho-POLR2A CTD-S7 Rabbit pAb (AP0969) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-POLR2A CTD-S7 in paraffin-embedded rat brain using Phospho-POLR2A CTD-S7 Rabbit pAb (AP0969) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



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.