Phospho-POLR2A CTD-S2 Rabbit mAb

Catalog No.: AP0996 Recombinant



Basic Information

Observed MW 270kDa

Calculated MW 217kDa

Category Primary antibody

Applications ELISA,WB,IHC-P,IF/ICC,ChIP,ChIPseq,CUT&Tag

Cross-Reactivity Human, Mouse, Rat

CloneNo number

ARC1540

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 - 1:2000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
ChIP	5μg antibody for 10μg-15μg of Chromatin
ChIP-seq	1:50 - 1:100
CUT&Tag	10⁵ cells /1 µg

Immunogen Information

Gene ID 5430

Swiss Prot P24928

Immunogen

A phospho specific peptide corresponding to residues surrounding S2 of human POLR2A CTD repeat YSPTSPS.

Synonyms

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

Contact

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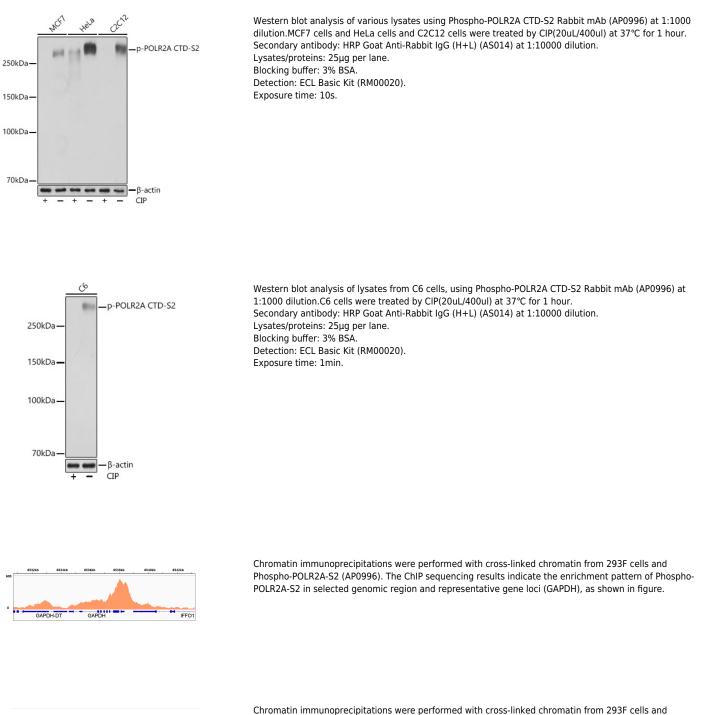
Product Information

Source	
Rabbit	

Isotype IgG **Purification** Affinity purification

Storage

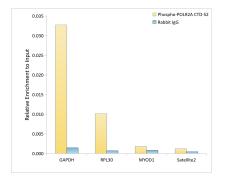
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.



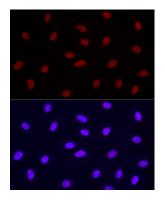
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MRPL51 NCAPD2 GAPDH-DT FFOT NOP2 CHD4 XR_007053153.1 LPARS

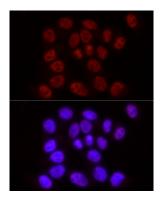
Chromatin immunoprecipitations were performed with cross-linked chromatin from 293F cells and Phospho-POLR2A-S2 (AP0996). The ChIP sequencing results indicate the enrichment pattern of Phospho-POLR2A-S2 in selected genomic region and representative gene loci (GAPDH), as shown in figure.



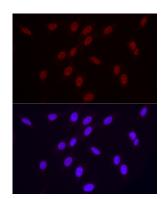
Chromatin immunoprecipitation analysis of extracts of 293F cells, using Phospho-POLR2A-S2 antibody (AP0996) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



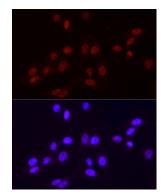
Immunofluorescence analysis of A-549 cells using Phospho-POLR2A CTD-S2 Rabbit mAb (AP0996) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



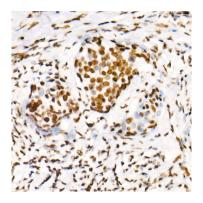
Immunofluorescence analysis of HeLa cells using Phospho-POLR2A CTD-S2 Rabbit mAb (AP0996) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



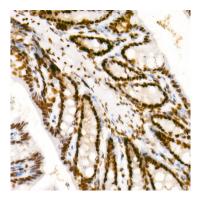
Immunofluorescence analysis of NIH/3T3 cells using Phospho-POLR2A CTD-S2 Rabbit mAb (AP0996) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



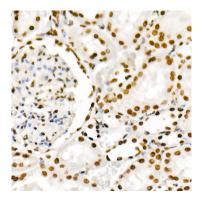
Immunofluorescence analysis of PC-12 cells using Phospho-POLR2A CTD-S2 Rabbit mAb (AP0996) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



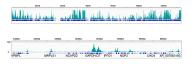
Immunohistochemistry analysis of paraffinembedded Human cervix cancer using Phospho-POLR2A CTD-S2 Rabbit mAb (AP0996) at dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffinembedded Mouse colon using Phospho-POLR2A CTD-S2 Rabbit mAb (AP0996) 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 paraffinembedded Rat kidney using Phospho-POLR2A CTD-S2 Rabbit mAb (AP0996) 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.



CUT&Tag was performed using the CUT&Tag Assay Kit(pAG-Tn5) forlllumina (RK20265) from 10⁵ Hela cells with 1µg Phospho-POLR2A CTD-S2 Rabbit mAb(AP0996), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of Phospho-POLR2A CTD-S2 in representative gene loci(GAPDH). CUT&Tag was performed using the CUT&Tag Assay Kit(pAG-Tn5) forlllumina (RK20265) from 10⁵ Hela cells with 1µg Phospho-POLR2A CTD-S2 Rabbit mAb(AP0996), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of Phospho-POLR2A CTD-S2 in representative gene loci(GAPDH).