Phospho-POLR2A-S2 Monoclonal Antibody

CABP0996

Description

This Phospho-POLR2A-S2 Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CABP0996
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	RPB1, RPO2, POLR2, POLRA, RPBh1, RPOL2, NEDHIB, RpIILS, hsRPB1, hRPB220, Phospho-POLR2A CTD-S2
Clone:	ARC1540
Applications:	WB IHC-P IF/ICC ChIP ChIP-seq ELISA CUT&Tag
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	5430
Uniprot:	AB_2863888
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	270kDa
Calculated MW:	217kDa

Manufacturers Statement: This final kit system is assembled and quality-released by Assay Genie Limited.

Preparation & Storage

Storage: Store at -20℃. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Store Bradford Reagent at Room Temperature for 1 Year.

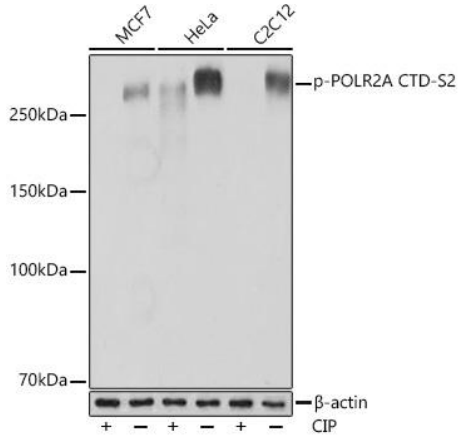
Positive Sample: MCF7, HeLa, C2C12, C6

Recommended Dilutions:

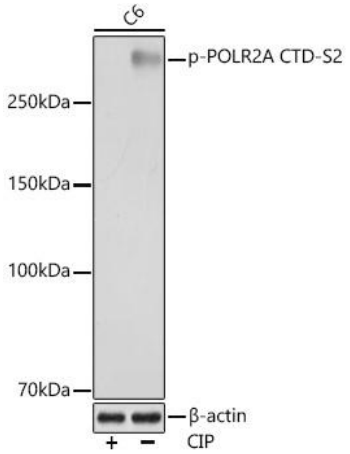
WB	1:500 - 1:2000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. ChIP 5μg antibody for 10μg-15μg of Chromatin ChIP-seq 1:50 - 1:100 CUT&Tag 10^5 cells /1 μg

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

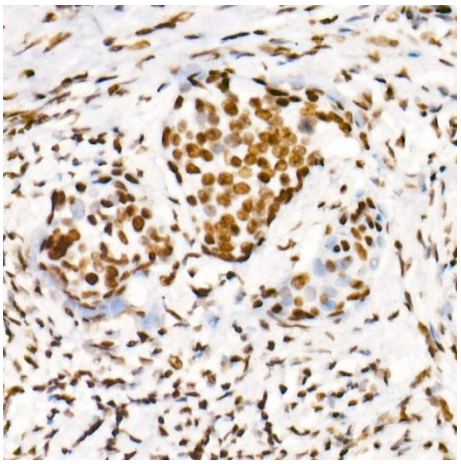
Validation Data



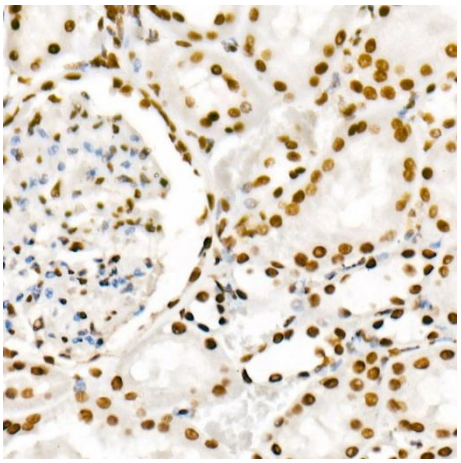
Western blot analysis of various lysates using Phospho-POLR2A CTD- Rabbit mAb (CABP0996) at 1:1000 dilution. cells and HeLa cells and C2C12 cells were treated by CIP(20uL/400ul) at 37℃ for 1 hour. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25μg per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (AbGn00020). Exposure time: 10s.



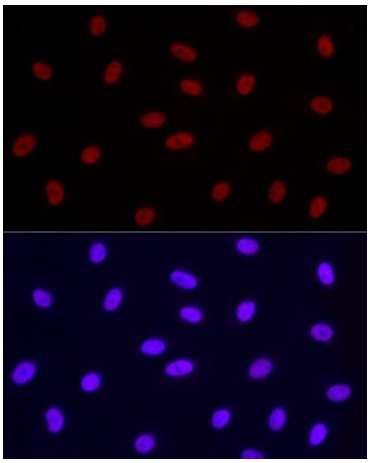
Western blot analysis of lysates from cells, using Phospho-POLR2A CTD- Rabbit mAb (CABP0996) at 1:1000 dilution. cells were treated by CIP(20uL/400ul) at 37℃ for 1 hour. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (AbGn00020). Exposure time: 1min.



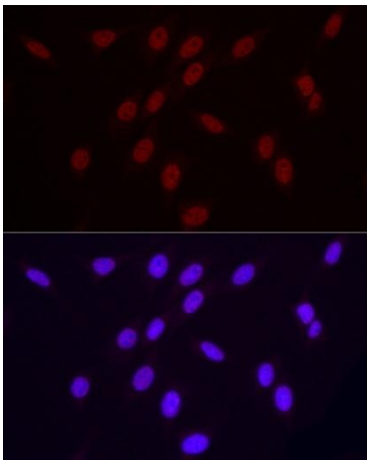
Immunohistochemistry analysis of paraffin-embedded Human cervix cancer using Phospho-POLR2A CTD- Rabbit mAb (CABP0996) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



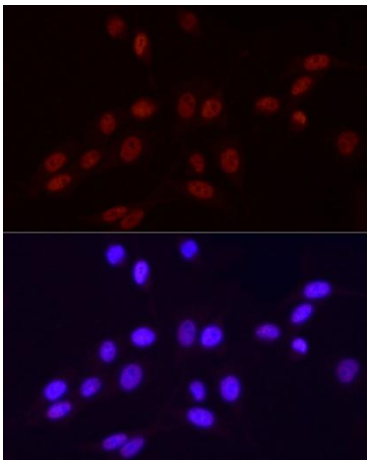
Immunohistochemistry analysis of paraffin-embedded Rat kidney using Phospho-POLR2A CTD- Rabbit mAb (CABP0996) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



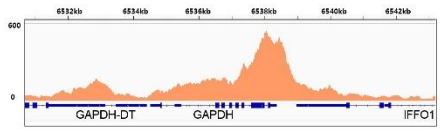
Immunofluorescence analysis of A-549 cells using Phospho-POLR2A CTD- Rabbit mAb (CABP0996) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (CABS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



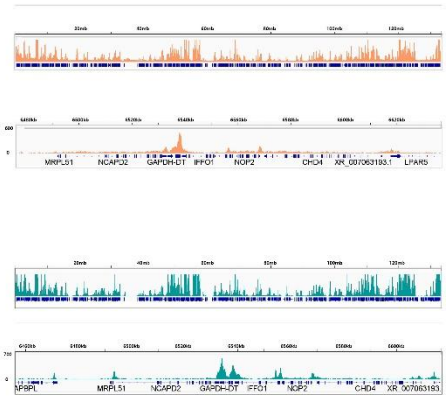
Immunofluorescence analysis of NIH/3T3 cells using Phospho-POLR2A CTD- Rabbit mAb (CABP0996) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (CABS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using Phospho-POLR2A CTD- Rabbit mAb (CABP0996) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (CABS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Chromatin immunoprecipitations were performed with cross-linked chromatin from 293F cells and Phospho-POLR2A- (CABP0996). The ChIP sequencing results indicate the enrichment pattern of Phospho-POLR2A- in selected genomic region and representative gene loci (GAPDH), as shown in figure.



Chromatin immunoprecipitations were performed with cross-linked chromatin from 293F cells and Phospho-POLR2A- (CABP0996). The ChIP sequencing results indicate the enrichment pattern of Phospho-POLR2A- in selected genomic region and representative gene loci (GAPDH), as shown in figure.

CUT&Tag was performed using the CUT&Tag Assay Kit(pAG-Tn5) forIllumina from 10^5 Hela cells with 1μg Phospho-POLR2A CTD- Rabbit mAb(CABP0996), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of Phospho-POLR2A CTD- in representative gene loci(GAPDH).