Phospho-POLR2A-S2/S5 Rabbit mAb

Catalog No.: AP1354 Recombinant



Basic Information

Observed MW 270kDa

Calculated MW 217kDa

Category Primary antibody

Applications ELISA,WB,IP,ChIP,CUT&Tag

Cross-Reactivity Human, Rat

CloneNo number ARC54959

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	1:1000 - 1:5000
IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
ChIP	5µg antibody for 10µg-15µg of Chromatin
CUT&Tag	10⁵ cells /1 μg

Immunogen Information

Gene ID 5430

Swiss Prot P24928

Immunogen

A phospho specific peptide corresponding to residues surrounding S2/S5 of human POLR2A.

Synonyms

RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; NEDHIB; RpIILS; hsRPB1; hRPB220; Phospho-POLR2A-S2/S5

Contact

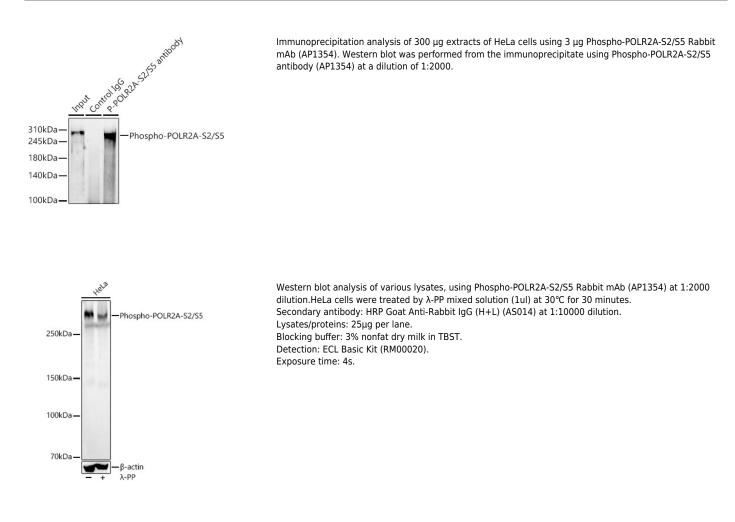
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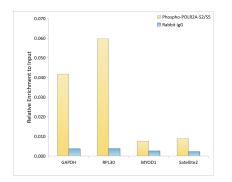
Product Information

Source Rabbit **lsotype** IgG Purification Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.





Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Phospho-POLR2A-S2/S5 Rabbit mAb (AP1354) 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.

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CUT&Tag was performed using the CUT&Tag

Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10⁵ K562 cells with 1 μ g Phospho-POLR2A-S2/S5 Rabbit mAb (AP1354), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of Phospho-POLR2A-S2/S5 in representative gene loci (RPL30), as shown in figure.