

Rabbit anti-Human RNA pol II CTD phospho Ser2 Polyclonal Antibody | anti-Ser2 antibody

RNA pol II CTD phospho Ser2 antibody (pAb)

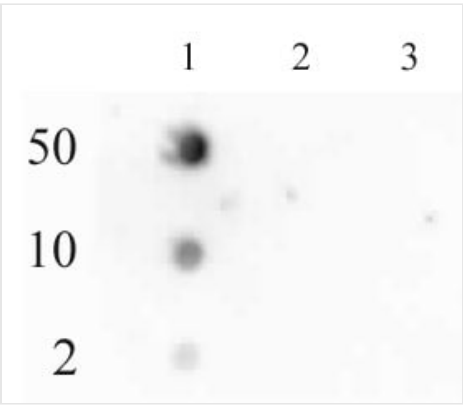
CATALOG # AAA59880	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot, Immunoprecipitation
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PRODUCT SYNONYMS

RNA pol II CTD phospho Ser2; Polyclonal Antibody; RNA pol II CTD phospho Ser2 antibody (pAb); RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RplILS; hsRPB1; hRPB220; anti-Ser2 antibody

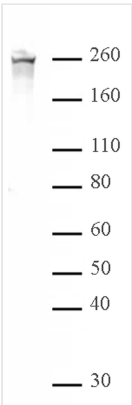
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Form/Format	Purified IgG in 70mM Tris (pH8), 105mM NaCl, 31mM glycine, 0.07mM EDTA, 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-Ser2 antibody	WB (Western Blot), IP (Immunoprecipitation)
Conjugation	Phosphorylated
Immunogen	This RNA pol II CTD phospho Ser2 antibody was raised against a peptide containing the RNA Pol II CTD sequence phosphorylated at serine 2.
Abs Residue	Ser
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul



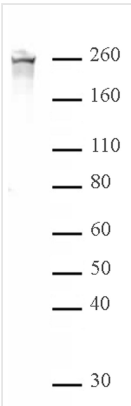
DB (Dot Blot)

RNA Pol II CTD phospho Ser2 antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of RNA Pol II CTD phospho Ser2 pAb. Peptides corresponding to the immunogen and related peptides were spotted onto PVDF and probed with the antibody at a dilution of 1:2,000. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: Phospho Ser2 of RNA Pol II CTD peptide. Lane 2: Unmodified RNA Pol II CTD peptide. Lane 3: Phospho Ser5 of RNA Pol II CTD peptide.



WB (Western Blot)

RNA Pol II CTD phospho Ser2 antibody (pAb) tested by Western blot. HeLa cell nuclear extract (20 ug per lane) was probed with RNA Pol II CTD phospho Ser2 pAb at a dilution of 1:2,000.



WB (Western Blot)

RNA Pol II CTD phospho Ser2 antibody (pAb) tested by Immunoprecipitation. 10 ul of RNA Pol II CTD phospho Ser2 antibody was used to immunoprecipitate RNA Pol II CTD phospho Ser2 from 250 ug of HeLa nuclear cell extract (lane 2). 10 ul of rabbit IgG was used as a negative control (lane 1). The immunoprecipitated protein was detected by Western blotting using the RNA Pol II CTD phospho Ser2 antibody at a dilution of 1:1,000.

ADDITIONAL INFORMATION

Related Product Information for anti-Ser2 antibody	Short Description: Our RNA pol II CTD phospho Ser2 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Immunoprecipitation and Western blot; it has been shown to react with Human samples. Background: RNA pol II (RNA polymerase II) is responsible for synthesizing messenger RNA in eukaryotes. RNA pol II 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, RNA pol II, in combination with several other polymerase subunits, form the DNA binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA. During the transcription cycle, the CTD of the large subunit of RNA pol II is reversibly phosphorylated. RNA pol II containing unphosphorylated CTD is recruited to the promoter, whereas the hyperphosphorylated CTD form is involved in active transcription. Phosphorylation occurs at two sites within the heptapeptide repeat, at serine 2, serine 5 and serine 7. RNA pol II phosphorylated at serine 2 is enriched over the gene body and is associated with transcriptional elongation.
Product Categories/Family for anti-Ser2 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505939
NCBI GeneID	5430
NCBI Accession #	NP_000928; AB_2793259
NCBI GenBank Nucleotide #	NM_000937
UniProt Accession #	P24928; Q6NX41; A6NN93; B9EH88
Molecular Weight	63,641 Da
NCBI Official Full Name	DNA-directed RNA polymerase II subunit RPB1
NCBI Official Synonym Full Names	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
NCBI Official Symbol	POLR2A
NCBI Official Synonym Symbols	RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RplILS; hsRPB1; hRPB220
NCBI Protein Information	DNA-directed RNA polymerase II subunit RPB1; DNA-directed RNA polymerase II largest subunit, RNA polymerase II 220 kd subunit; DNA-directed RNA polymerase II subunit A; DNA-directed RNA polymerase III largest subunit; RNA polymerase II subunit B1; RNA-dir
UniProt Protein Name	DNA-directed RNA polymerase II subunit RPB1
UniProt Gene Name	POLR2A
UniProt Synonym Gene Names	POLR2; RNA polymerase II subunit B1
UniProt Entry Name	RPB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rna-pol-ii-ctd-phospho-ser2-antibody-western-blot-immunoprecipitation-elisa/59880>