

Rat anti-Human RNA pol II CTD phospho Ser7 Monoclonal Antibody | anti-Ser7 antibody

RNA pol II CTD phospho Ser7 antibody (mAb)(Clone 3D4A12)

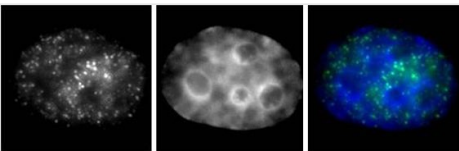
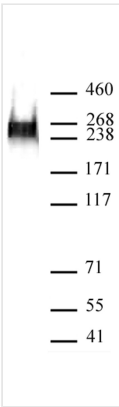
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60079	Rat	Human	Western Blot, Immunofluorescence, Immunocytochemistry

PRODUCT SYNONYMS

RNA pol II CTD phospho Ser7; Monoclonal Antibody; RNA pol II CTD phospho Ser7 antibody (mAb)(Clone 3D4A12); RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RplILS; hSRPB1; hRPB220; anti-Ser7 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	3D4A12
Purity/Purification	Protein G Chromatography
Form/Format	Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-Ser7 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry)
Conjugation	Phosphorylated
Immunogen	This antibody was raised against a peptide containing the RNA pol II CTD sequence phosphorylated at serine 7.
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



IF (Immunofluorescence)
RNA pol II phospho Ser7 antibody (mAb) (Clone 3D4A12) tested by Immunofluorescence. Left: HeLa cell stained with RNA pol II CTD phospho Ser7 antibody (mAb). Middle: DAPI. Right: Merge.

WB (Western Blot)
RNA pol II phospho Ser7 antibody (mAb) (Clone 3D4A12) tested by Western blot. HeLa nuclear extract (40 ug per lane) probed with RNA pol II phospho Ser7 antibody (mAb) at a 2 ug/ml dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-Ser7 antibody	Short Description: Our RNA pol II CTD phospho Ser7 antibody (mAb)(Clone 3D4A12) was raised in a Rat host. It has been validated for use in Immunocytochemistry, Immunofluorescence 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 Serine 7 phosphorylation is confined to promoter regions and is necessary for the initiation of transcription.
Product Categories/Family for anti-Ser7 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505939
NCBI GeneID	5430
NCBI Accession #	NP_000928; AB_2793742
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/monoclonal/rna-pol-ii-ctd-phospho-ser7-antibody-clone-3d4a12-western-blot-immunofluorescence-immunocytochemistry-elisa/60079>