

Rat anti-Human RNA pol II Monoclonal Antibody | anti-RNAPolII antibody

RNA pol II antibody (mAb)(Clone 1F4B6)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60071	Rat	Human	Western Blot, Immunofluorescence, Immunocytochemistry, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

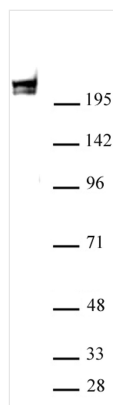
PRODUCT SYNONYMS

RNA pol II; Monoclonal Antibody; RNA pol II antibody (mAb)(Clone 1F4B6); RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RplILS; hsRPB1; hRPB220; anti-RNAPolII antibody

PRODUCT SPECIFICATIONS

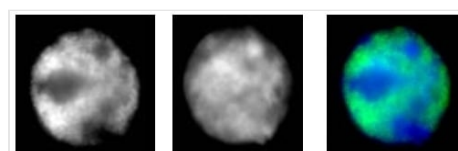
Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	1F4B6
Purity/Purification	Protein G Chromatography
Form/Format	Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-RNAPolII antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Immunogen	This antibody was raised against a synthetic peptide containing the CTD of human RNA Polymerase II.
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

IMAGES



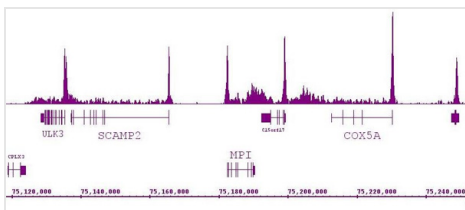
WB (Western Blot)

RNA pol II antibody (mAb) (Clone 1F4B6) tested by Western blot. HeLa nuclear extract (30 ug per lane) probed with RNA pol II antibody (mAb) at a 1 ug/ml dilution.



IF (Immunofluorescence)

RNA pol II antibody (mAb) (Clone 1F4B6) tested by immunofluorescence. Left: HeLa cell stained with RNA pol II antibody (mAb). Middle:Hoechst. Right: Merge.



ChIP (Chromatin Immunoprecipitation)

RNA pol II antibody (mAb) (Clone 1F4B6) tested by ChIP-Seq. ChIP was performed using the ChIP-IT High Sensitivity Kit with 30 ug of chromatin from HL-60 cells and 4 ug of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 14 million sequence tags were mapped to identify RNA pol II binding sites. The image shows binding across a region of chromosome 15. You can view the complete data set in the UCSC Genome Browser, starting at this specific location, [here](#).

ADDITIONAL INFORMATION

Related Product Information for anti-RNAPolII antibody	Short Description: Our RNA pol II antibody (mAb)(Clone 1F4B6) was raised in a Rat host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, 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.
Product Categories/Family for anti-RNAPolII antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505939
NCBI GeneID	5430
NCBI Accession #	NP_000928 ; AB_2687513
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.

