

Mouse anti-Human RNA Pol II CTD phospho Tyr1 Antibody | anti-Tyr1 antibody

AbFlex RNA Pol II CTD phospho Tyr1 antibody (rAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60276	Mouse	Human	Western Blot, Immunofluorescence, ELISA, Chromatin Immunoprecipitation, Immunoprecipitation

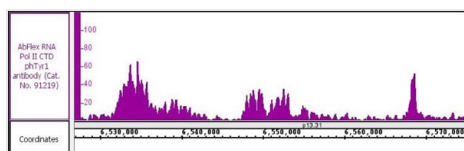
PRODUCT SYNONYMS

RNA Pol II CTD phospho Tyr1; AbFlex RNA Pol II CTD phospho Tyr1 antibody (rAb); RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RplILS; hsRPB1; hRPB220; anti-Tyr1 antibody

PRODUCT SPECIFICATIONS

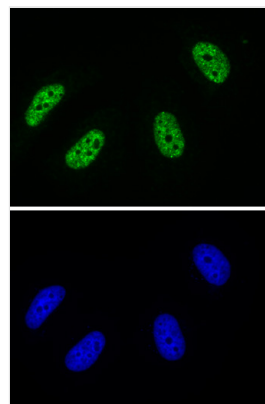
Host	Mouse
Reactivity	Human
Isotype	IgG2a
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in 140mM Hepes, pH7.5, 70mM NaCl, 32mM NaOAc, 0.035% sodium azide, 30% glycerol. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-Tyr1 antibody	WB (Western Blot), IF (Immunofluorescence), ELISA, ChIP (Chromatin immunoprecipitation)
Antibody Type	Recombinant Antibody
Conjugation	Phosphorylated
Immunogen	This antibody was raised against synthetic peptide containing the RNA Pol II heptad repeat consensus sequence phosphorylated at tyrosine 1.
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



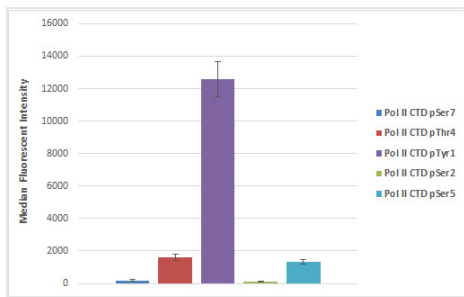
ChIP (Chromatin Immunoprecipitation)

AbFlex RNA Pol II CTD phospho Tyr1 recombinant antibody (rAb) tested by ChIP-Seq. Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit with 30 ug of Raji cell chromatin and 10 ug of antibody. ChIP DNA was sequenced on the Illumina NextSeq and 17.3 million sequence tags were mapped to identify RNA Pol II CTD phospho Tyr1 binding sites on chromosome 12.



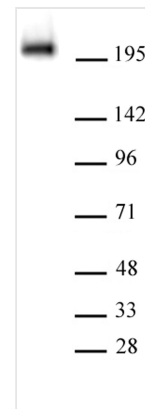
IF (Immunofluorescence)

AbFlex RNA Pol II CTD phospho Tyr1 antibody (rAb) tested by Immunofluorescence. HeLa cells were stained with 2 ug /mL of AbFlex RNA Pol II CTD phospho Tyr1 antibody (rAb) followed by anti-mouse IgG-488.



Application Data

AbFlex RNA pol II CTD phospho Tyr1 antibody (rAb) tested by Luminex bead-based specificity analysis. Luminex bead-based specificity analysis was used to confirm the specificity of AbFlex RNA pol II CTD phospho Tyr1 antibody (rAb) antibody for RNA pol II CTD peptides. RNA pol II peptides were conjugated to MagPlex Luminex beads and incubated with 500 ng of AbFlex RNA pol II CTD phospho Tyr1 antibody (rAb). Peptide-bound antibody was detected with anti-mouse IgG-Phycoerythrin (PE) and read in a Luminex instrument. Luminex is a registered trademark of Luminex Corporation.



SDS-PAGE

AbFlex RNA Pol II CTD phospho Tyr1 antibody (rAb) (rAb) tested by Western Blot. 20 ug of HeLa cell nuclear extract was run on SDS-PAGE and probed with AbFlex RNA Pol II CTD phospho Tyr1 antibody at 2 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-Tyr1 antibody

Short Description: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. Our AbFlex RNA Pol II CTD phospho Tyr1 antibody (rAb) was raised in a Mouse host. It has been validated for use in ChIP-Seq, ELISA, Immunofluorescence and Western blot; it has been shown to react with Human samples.

Background: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. AbFlex RNA Pol II CTD phospho Tyr1 antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in mammalian 293 cells. 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-Tyr1 antibody

Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505939
NCBI GeneID	5430
NCBI Accession #	NP_000928; AB_2793809
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/rna-pol-ii-ctd-phospho-tyr1/60276>