

Rabbit anti-Human RNA pol II CTD Cit1810 Polyclonal Antibody | anti-Cit1810 antibody

RNA pol II CTD Cit1810 antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60352	Rabbit	Human	Western Blot, Immunoprecipitation, Dot Blot

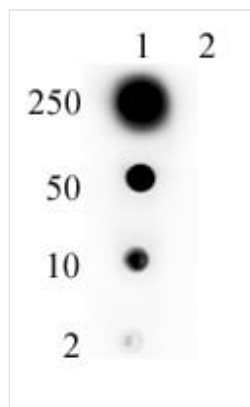
PRODUCT SYNONYMS

RNA pol II CTD Cit1810; Polyclonal Antibody; RNA pol II CTD Cit1810 antibody (pAb); RNA pol II CTD Cit1810 pAb; RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RplILS; hSRPB1; hRPB220; anti-Cit1810 antibody

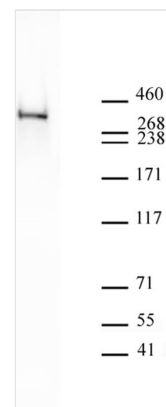
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Form/Format	Purified IgG in 70 mM Tris, 32 mM NaOAC, 0.035% sodium azide, 30% glycerol and 0.5 mg/mL BSA. Sodium azide is highly toxic.
Applicable Applications for anti-Cit1810 antibody	WB (Western Blot), IP (Immunoprecipitation), DB (Dot Blot)
Abs residue	Arg
Modification	Citrullinated
Immunogen	This RNA pol II CTD Cit 1810 antibody was raised against a peptide containing the RNA Pol II CTD sequence containing citrulline and corresponding to human RNA pol II.
Preparation and Storage	Store at -20 degree C. 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.

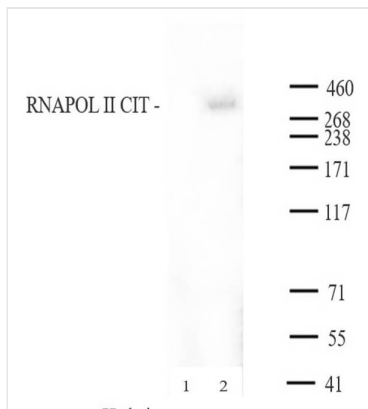
IMAGES



Application Data



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-Cit1810 antibody	RNA pol II CTD Cit1810 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Dot blot, Immunoprecipitation and Western blot; it has been shown to react with Human samples. 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. This antibody is specific for the deamination of arginine and its conversion to citrulline by peptidyl arginine deiminase 2 (PADI2), an enzyme that has been associated with several diseases, including cancer. Among the PADI family members, only PADI2 citrullinates R1810 (Cit1810) at repeat 31 of the CTD. Loss of R1810 result in increased amounts of RNAP2 at transcription start sites, reduce gene expression, and inhibits cell proliferation.
Product Categories/Family for anti-Cit1810 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505939
NCBI GeneID	5430
NCBI Accession #	NP_000928
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; RplLS; 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-cit1810-antibody-western-blot-immunoprecipitation-dot-blot-elisa/60352>