

Rabbit anti-Human RNA Pol II CTD Polyclonal Antibody | anti-POLR2A antibody

RNA Pol II CTD (pThr4) antibody

CATALOG # AAA50469	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

RNA Pol II CTD; Polyclonal Antibody; RNA Pol II CTD (pThr4) antibody; RABBIT ANTI HUMAN RNA POL II CTD (pThr4); anti-POLR2A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antiserum to human RNA pol II CTD (pThr4) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography on Protein A.
Form/Format	Purified IgG - liquid Phosphate buffered saline 0.035% Sodium Azide (NaN ₃), 30% Glycerol
Applicable Applications for anti-POLR2A antibody	WB (Western Blot)
Immunogen	A peptide containing the RNA pol II C-terminal sequence phosphorylated at threonine 4
Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20 degree C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 degree C for short term use (up to 4 weeks) and store the remaining aliquots at -20 degree C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

IMAGES



Application Data
Rabbit anti Human RNA pol II CTD (pThr4) antibody (AAA50469) tested by dot blot analysis. Peptides corresponding to phosphorylated threonine 4 of RNA pol II CTD (lane1), unmodified threonine 4 of RNA pol II CTD (lane 2), phosphorylated serine 2 of RNA pol II CTD (lane 3), and phosphorylated serine 5 of RNA pol II CTD (lane 4) were spotted onto PVDF in decreasing amounts (indicated in picomoles on the left) and probed with AAA50469 at a 1 ug/ml dilution.

WB (Western Blot)
Western blot analysis of HeLa cell nuclear extract (40 ug) probed with RNA pol II CTD (pThr4) antibody (AAA50469) at a 2 ug/ml dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-POLR2A antibody	Rabbit anti Human RNA pol II CTD (pThr4) antibody recognizes RNA polymerase II, also known as RNAP II and pol II, when phosphorylated at threonine 4 of the carboxyl-terminal repeat domain. RNA pol II is a 550 kDa enzyme complex made up of 12 subunits that transcribes DNA into precursors of messenger RNA (mRNA), snRNA, and microRNA (Kornburg, 1999) (Sims et al. 2004). The carboxyl-terminal repeat domain (CTD) of RNA pol II is reversibly phosphorylated in during the transcription cycle (Phatnani and Greenleaf, 2006). Phosphorylation of the CTD of RNA pol II at threonine 4 has been shown to facilitate histone mRNA 3' end processing (Hsin et al. 2011). Phosphorylation of the carboxyl-terminal repeat domain of RNA polymerase II at threonine 4 occurs at the 3' end of most human genes and is necessary for transcription elongation (Hintermair et al. 2012). Wide species cross-reactivity is expected from Rabbit anti Human RNA pol II CTD (pThr4) based on sequence.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505939
NCBI GeneID	5430
NCBI Accession #	NP_000928.1
NCBI GenBank Nucleotide #	NM_000937.4
UniProt Accession #	P24928; A6NN93; B9EH88
Molecular Weight	217,176 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; RNA polymerase II subunit B1; DNA-directed RNA polymerase II subunit A; RNA-directed RNA polymerase II subunit RPB1; DNA-directed RNA polymerase III largest subunit; DNA-directed RNA polymerase II largest subun
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-antibody-western-blot-elisa/50469>