

Mouse RNA Polymerase II/Poll II Monoclonal Antibody | anti-POLR2A antibody

RNA Polymerase II/Poll II

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214793	Mouse	Human, Mouse, Rat.	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

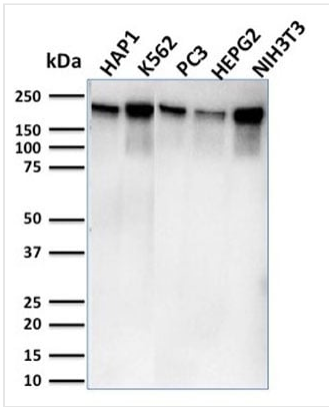
PRODUCT SYNONYMS

RNA Polymerase II/Poll II; Monoclonal Antibody; DNA-directed RNA polymerase II largest subunit RNA polymerase II 220 kd subunit; DNA-directed RNA polymerase II subunit RPB1; hRPB220; hsRPB1; POLR2; Polr2a; POLRA; Polymerase (RNA) II (DNA directed) polypeptide A 220kDa; RNA polymerase II subunit B1; RPBh1; RplILS; RPO2; RPOL2; anti-POLR2A antibody

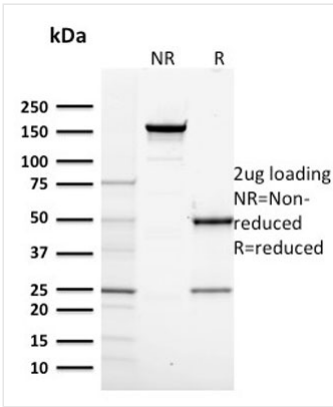
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CTD4H8
Specificity	RNA polymerase II (Pol II) is an enzyme that is composed of 12 subunits and is responsible for the transcription of protein-coding genes. Transcription initiation requires Pol II-mediated recruitment of transcription machinery to a target promoter, thereby allowing transcription to begin. The largest subunit of Pol II (referred to as RPB1 or RPB205) is a 1,840 amino acid protein that contains one C2H2-type zinc finger and a C-terminal domain comprised of several heptapeptide repeats. Although Pol II function requires the cooperation of all twelve subunits, the largest subunit conveys Pol II catalytic activity and, together with the second largest subunit, forms the active center of the Pol II enzyme. Additionally, the large subunit participates in forming the DNA-binding domain of Pol II, a groove that is necessary for transcription of the DNA template. WITHOUT proper function of the large subunit, mRNA synthesis and subsequent transcription elongation cannot occur.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	566
Applicable Applications for anti-POLR2A antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	10 repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-ser 5.
Positive Control	HAP1, K562, PC3, HePG2, NIH3T3 Cells. Human testis.
Cellular Localization	Nuclear
Chromosome Location	17p13.1
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

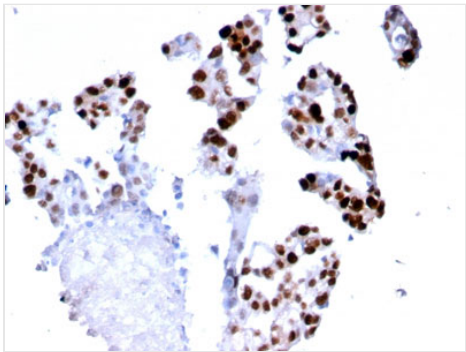
IMAGES



WB (Western Blot)
Western Blot Analysis of Human HAP1, K562, PC3, HePG2 & NIH3T3 cell lysates using RNA Pol II Mouse Monoclonal Antibody (CTD4H8).



SDS-PAGE
SDS-PAGE Analysis Purified RNA Pol II Mouse Monoclonal Antibody (CTD4H8). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with RNA Polymerase II / Pol II Mouse Monoclonal Antibody (CTD4H8).

ADDITIONAL INFORMATION

References	Madak-Erdogan, Z., et al. 2008. Mol. Endocrinol. 22: 2116-2127.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505939
NCBI GeneID	5430
NCBI Accession #	NP_000928.1
NCBI GenBank Nucleotide #	NM_000937.5
UniProt Accession #	P24928; Q6NX41; A6NN93; B9EH88
Molecular Weight	192-253kDa
NCBI Official Full Name	DNA-directed RNA polymerase II subunit RPB1
NCBI Official Synonym Full Names	RNA polymerase II subunit A
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
UniProt Protein Name	DNA-directed RNA polymerase II subunit RPB1

UniProt Gene Name	POLR2A
UniProt Synonym Gene Names	POLR2; RNA polymerase II subunit B1

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-polymerase-ii-poll-ii-antibody-clone-ctd4h8-immunohistochemistry-western-blot-immunofluorescence-flow-cytometry-elisa/214793>