

Mouse RNA Polymerase II CTD Repeat YSPTSPS Monoclonal Antibody | anti-POLR2A antibody

RNA Polymerase II CTD Repeat YSPTSPS (Phospho S5)

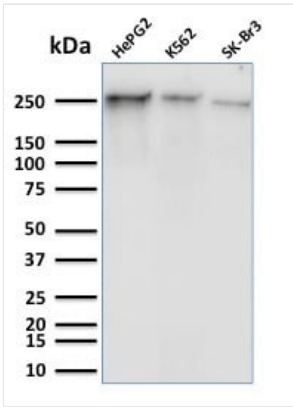
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215151	Mouse	Human, Saccharomyces cerevisiae	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

RNA Polymerase II CTD Repeat YSPTSPS; Monoclonal Antibody; RNA Polymerase II CTD Repeat YSPTSPS (Phospho S5); DNA-directed RNA polymerase II largest subunit RNA polymerase II 220 kd subunit; DNA-directed RNA polymerase II subunit RPB1; hRPB220; hRPB1; POLR2; Polr2a; POLRA; Polymerase (RNA) II (DNA directed) polypeptide A 220kDa; RNA polymerase II subunit B1; RPBh1; RplILS; RPO2; RPOL2; anti-POLR2A antibody

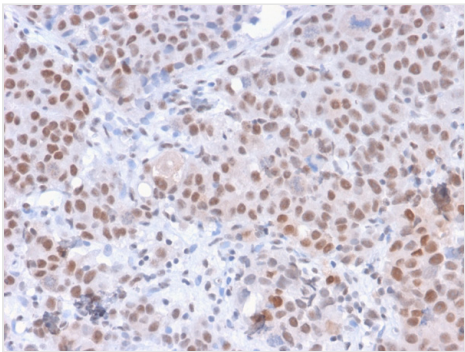
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Saccharomyces cerevisiae
Clonality	Monoclonal
Isotype	IgM, kappa
Clone Number	CTD 8A7
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 at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	1970
Applicable Applications for anti-POLR2A antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Positive Control	HAP1, K562, PC3, HePG2, NIH3T3 cells. Human testis.
Immunogen	Ten repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-Ser5
Cellular Localization	Nuclear
Hu-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. Non-hazardous. No MSDS required.



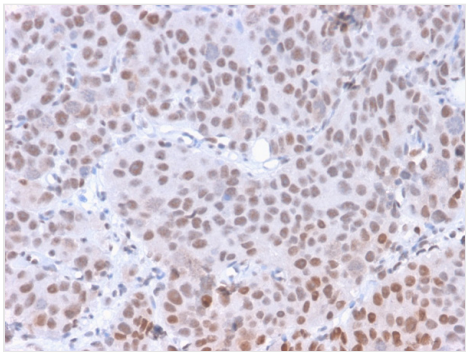
WB (Western Blot)

Western Blot Analysis of Human HepG2, K562 and SK-Br3 cell lysates using RNA Poll II Mouse Monoclonal Antibody (8A7).



IHC (Immunohiostchemistry)

Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with RNA Polymerase II/Poll II Mouse Monoclonal Antibody (8A7).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with RNA Polymerase II/Poll II Mouse Monoclonal Antibody (8A7).

ADDITIONAL INFORMATION

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505939
NCBI GeneID	5430
NCBI Accession #	NP_000928.1
NCBI GenBank Nucleotide #	NP_000928.1
UniProt Accession #	P24928
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
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/monoclonal/rna-polymerase-ii-ctd-repeat-ysptsps-antibody-clone-ctd-8a7-immunohistochemistry-western-blot-immunofluorescence-flow-cytometry-elisa/215151>