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POLR1C Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2839b

Product Information

Application	IHC-P, WB, E
Primary Accession	O15160
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17524
Calculated MW	39250
Antigen Region	319-346

Additional Information

Gene ID	9533
Other Names	DNA-directed RNA polymerases I and III subunit RPAC1, DNA-directed RNA polymerase I subunit C, RNA polymerases I and III subunit AC1, AC40, DNA-directed RNA polymerases I and III 40 kDa polypeptide, RPA40, RPA39, RPC40, POLR1C, POLR1E
Target/Specificity	This POLR1C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 319-346 amino acids from the C-terminal region of human POLR1C.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	POLR1C Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	POLR1C (HGNC:20194)
Synonyms	POLR1E

Function	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Common component of RNA polymerases I and III which synthesize ribosomal RNA precursors and short non-coding RNAs including 5S rRNA, snRNAs, tRNAs and miRNAs, respectively. POLR1C/RPAC1 is part of the polymerase core and may function as a clamp element that moves to open and close the cleft.
Cellular Location	Nucleus. Nucleus, nucleolus. Cytoplasm, cytosol

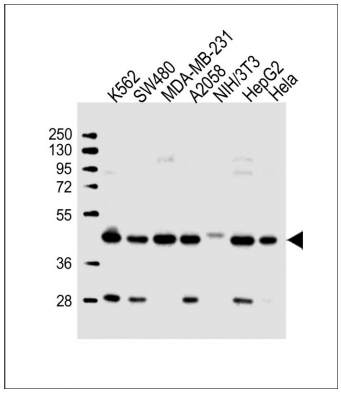
Background

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Common component of RNA polymerases I and III which synthesize ribosomal RNA precursors and small RNAs, such as 5S rRNA and tRNAs, respectively. RPAC1 is part of the Pol core element with the central large cleft and probably a clamp element that moves to open and close the cleft.

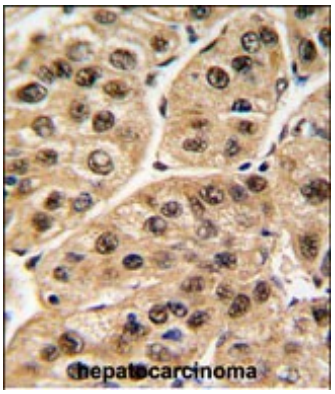
References

Rush,J., Nat. Biotechnol. 23 (1), 94-101 (2005)
Hirschler-Laszkiewicz,I., J. Biol. Chem. 278 (21), 18953-18959 (2003)
Dammann,R., Biochim. Biophys. Acta 1396 (2), 153-157 (1998)
Seither,P., Chromosoma 106 (4), 216-225 (1997)

Images



All lanes : Anti-POLR1C Antibody (C-term) at 1:2000 dilution Lane 1: K562 whole cell lysate Lane 2: SW480 whole cell lysate Lane 3: MDA-MB-231 whole cell lysate Lane 4: A2058 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: HepG2 whole cell lysate Lane 7: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 39 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with POLR1C antibody (C-term) (Cat. #AP2839b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.