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# POLR1C Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51765

## Product Information

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| **Application** | WB |
| **Primary Accession** | O15160 |
| **Reactivity** | Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 39250 |

## Additional Information

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| **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 |
| **Dilution** | WB~~1:1000 |
| **Format** | 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50% |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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|---|---|
| **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 (By similarity).

## References

Dammann R.,et al.Biochim. Biophys. Acta 1396:153-157(1998).
Mao M.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:8175-8180(1998).
Mungall A.J.,et al.Nature 425:805-811(2003).
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Hu P.,et al.Mol. Cell. Biol. 22:8044-8055(2002).

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