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POLR1E Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17099c

Product Information

Application	WB, E
Primary Accession	Q9GZS1
Other Accession	NP_071935.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37044
Calculated MW	47260
Antigen Region	171-198

Additional Information

Gene ID	64425
Other Names	DNA-directed RNA polymerase I subunit RPA49, RNA polymerase I subunit A49, DNA-directed RNA polymerase I subunit E, RNA polymerase I-associated factor 1, RNA polymerase I-associated factor 53, POLR1E, PAF53, PRAF1
Target/Specificity	This POLR1E antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 171-198 amino acids from the Central region of human POLR1E.
Dilution	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 purified through a protein A column, followed by peptide affinity purification.
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	POLR1E Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	POLR1E
Synonyms	PAF53 {ECO:0000303|PubMed:24207024}, PRA

Function	Component of RNA polymerase I (Pol I), a DNA-dependent RNA polymerase which synthesizes ribosomal RNA precursors using the four ribonucleoside triphosphates as substrates (PubMed:24207024, PubMed:34671025, PubMed:34887565, PubMed:36271492). Appears to be involved in the formation of the initiation complex at the promoter by mediating the interaction between Pol I and UBTF/UBF (PubMed:24207024).
Cellular Location	Nucleus, nucleolus

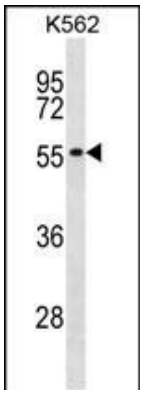
Background

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase I which synthesizes ribosomal RNA precursors. Appears to be involved in the formation of the initiation complex at the promoter by mediating the interaction between Pol I and UBTF/UBF (By similarity).

References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Percipalle, P., et al. EMBO Rep. 7(5):525-530(2006)
Yamamoto, K., et al. Mol. Cell. Biol. 24(14):6338-6349(2004)
Humphray, S.J., et al. Nature 429(6990):369-374(2004)

Images



POLR1E Antibody (Center) (Cat. #AP17099c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the POLR1E antibody detected the POLR1E protein (arrow).