POLR1E Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	POLR1E, Blocking Peptide
Full Product Name	POLR1E Antibody (Center) Blocking Peptide
Product Gene Name	POLR1E blocking peptide
Product Synonym Gene Name	PAF53; PRAF1
Product Synonym 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
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	POLR1E peptide (MBS9222267) is used for blocking the activity of POLR1E antibody (MBS9207900)
Molecular Weight	47,260 Da
Cellular Location	Nucleus, nucleolus
Related Product Information for POLR1E blocking peptide	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).
Other Notes	Small volumes of POLR1E blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for POLR1E purchase	MBS9222267 is a blocking peptide targeting POLR1E. Also known as POLR1E Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POLR1E. It may not necessarily be applicable to this product.

NCBI GI #	62901107
NCBI GeneID	64425
NCBI Accession #	Q9GZS1.2
UniProt Primary Accession #	Q9GZS1
UniProt Secondary Accession #	Q5VZT3; Q8NBA9; Q96L20
UniProt Related Accession #	Q9GZS1
NCBI Official Full Name	DNA-directed RNA polymerase I subunit RPA49
NCBI Official Synonym Full Names	RNA polymerase I subunit E
NCBI Official Symbol	POLR1E
NCBI Official Synonym Symbols	PAF53; PRAF1
UniProt Protein Name	DNA-directed RNA polymerase I subunit RPA49

UniProt Synonym Protein Names	DNA-directed RNA polymerase I subunit E; RNA polymerase I-associated factor 1; RNA polymerase I-associated factor 53
UniProt Gene Name	POLR1E
UniProt Synonym Gene Names	PAF53; PRAF1; RNA polymerase I subunit A49
UniProt Entry Name	RPA49_HUMAN
NCBI Protein Information	DNA-directed RNA polymerase I subunit RPA49
UniProt Comments for POLR1E	POLR1E: 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. Belongs to the eukaryotic RPA49/POLR1E RNA polymerase subunit family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nucleolus; Nucleotide Metabolism - pyrimidine; Nucleotide Metabolism - purine Chromosomal Location of Human Ortholog: 9p13.2 Cellular Component: DNA-directed RNA polymerase I complex; nucleolus; nucleoplasm; nucleus Biological Process: positive regulation of gene expression, epigenetic; RNA elongation from RNA polymerase I promoter; rRNA transcription; termination of RNA polymerase I transcription; transcription initiation from RNA polymerase I promoter
Research Articles on POLR1E	**1.** Nucleolar detention requires binding of SIRT7 to nascent pre-rRNA, linking the spatial distribution of SIRT7 and deacetylation of PAF53 to ongoing transcription.
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