POLR2E Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	POLR2E, Polyclonal Antibody
Full Product Name	POLR2E Polyclonal Antibody
Product Gene Name	anti-POLR2E antibody
Clonality	Polyclonal
Molecular Weight	24,551 Da
OMIM	180664
3D Structure	ModBase 3D Structure for P19388
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-POLR2E antibody	MBS8524792 is an antibody targeting POLR2E. Also known as POLR2E Polyclonal Antibody.
Other Notes	Small volumes of anti-POLR2E antibody 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POLR2E. It may not necessarily be applicable to this product.

NCBI GI #	14589951
NCBI GeneID	5434
NCBI Accession #	NP_002686.2
UniProt Primary Accession #	P19388
UniProt Secondary Accession #	O43380; Q6PIH5; Q9BT06; B2R6L4; D6W5Y1
UniProt Related Accession #	P19388
GenBank Nucleotide #	NM_002695.3
NCBI Official Full Name	DNA-directed RNA polymerases I, II, and III subunit RPABC1 isoform a
NCBI Official Synonym Full Names	RNA polymerase II subunit E
NCBI Official Symbol	POLR2E
NCBI Official Synonym Symbols	RPB5; XAP4; RPABC1; hRPB25; hsRPB5
UniProt Protein Name	DNA-directed RNA polymerases I, II, and III subunit RPABC1
UniProt Synonym Protein Names	DNA-directed RNA polymerase II 23 kDa polypeptide; DNA-directed RNA polymerase II subunit E; RPB5 homolog; XAP4
UniProt Gene Name	POLR2E
UniProt Synonym Gene Names	RNA polymerases I, II, and III subunit ABC1
NCBI Protein Information	DNA-directed RNA polymerases I, II, and III subunit RPABC1

NCBI Summary for POLR2E	This gene encodes the fifth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit is shared by the other two DNA-directed RNA polymerases and is present in two-fold molar excess over the other polymerase subunits. An interaction between this subunit and a hepatitis virus transactivating protein has been demonstrated, suggesting that interaction between transcriptional activators and the polymerase can occur through this subunit. A pseudogene is located on chromosome 11. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]
UniProt Comments for POLR2E	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Common component of RNA polymerases I, II and III which synthesize ribosomal RNA precursors, mRNA precursors and many functional non-coding RNAs, and small RNAs, such as 5S rRNA and tRNAs, respectively. Pol II is the central component of the basal RNA polymerase II transcription machinery. Pols are composed of mobile elements that move relative to each other. In Pol II, POLR2E/RPB5 is part of the lower jaw surrounding the central large cleft and thought to grab the incoming DNA template. Seems to be the major component in this process ().
Research Articles on POLR2E	**1.** POLR2E rs3787016 C/T and HULC rs7763881 were associated with a significantly decreased risk for ESCC 0.005). ANRIL rs2151280 T/C SNP was not associated with risk of ESCC.
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