POLD2 Blocking Peptide (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	POLD2, Blocking Peptide
Full Product Name	POLD2 Blocking Peptide (Center)
Product Gene Name	POLD2 blocking peptide
Product Synonym Names	DNA polymerase delta subunit 2; DNA polymerase delta subunit p50; POLD2
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.
Specificity	The synthetic peptide sequence is selected from aa 252-265 of HUMAN POLD2
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	POLD2 peptide (MBS9229241) is used for blocking the activity of POLD2 antibody (MBS9209952)
Molecular Weight	51,289 Da
OMIM	600815
Cellular Location	Nucleus.
Related Product Information for POLD2 blocking peptide	MBS9229241 is a blocking peptide targeting POLD2. Also known as POLD2 Blocking Peptide (Center). The function of the small subunit is not yet clear.
Other Notes	Small volumes of POLD2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POLD2. It may not necessarily be applicable to this product.

NCBI GI #	1352307
NCBI GeneID	5425
NCBI Accession #	P49005.1
UniProt Primary Accession #	P49005
UniProt Secondary Accession #	A4D2J4; B2R5S4
UniProt Related Accession #	P49005
NCBI Official Full Name	DNA polymerase delta subunit 2
NCBI Official Synonym Full Names	DAN polymerase delta 2, accessory subunit
NCBI Official Symbol	POLD2
UniProt Protein Name	DNA polymerase delta subunit 2
UniProt Synonym Protein Names	DNA polymerase delta subunit p50
Protein Family	DNA polymerase
UniProt Gene Name	POLD2
UniProt Entry Name	DPOD2_HUMAN

NCBI Protein Information	DNA polymerase delta subunit 2
NCBI Summary for POLD2	This gene encodes the 50-kDa catalytic subunit of DNA polymerase delta. DNA polymerase delta possesses both polymerase and 3' to 5' exonuclease activity and plays a critical role in DNA replication and repair. The encoded protein is required for the stimulation of DNA polymerase delta activity by the processivity cofactor proliferating cell nuclear antigen (PCNA). Expression of this gene may be a marker for ovarian carcinomas. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Mar 2012]
UniProt Comments for POLD2	POLD2: The function of the small subunit is not yet clear. Belongs to the DNA polymerase delta/II small subunit family. Protein type: DNA repair, damage; Nucleotide Metabolism - purine; Transferase; EC 2.7.7.7; Nucleotide Metabolism - pyrimidine; DNA replication Chromosomal Location of Human Ortholog: 7p13 Cellular Component: nucleoplasm; nucleus Molecular Function: DNA-directed DNA polymerase activity; protein binding Biological Process: bypass DNA synthesis; DNA damage response, detection of DNA damage; DNA replication; DNA strand elongation during DNA replication; mismatch repair; nucleotide-excision repair, DNA gap filling; nucleotide-excision repair, DNA incision; nucleotide-excision repair, DNA incision, 5'-to lesion; telomere maintenance; telomere maintenance via recombination; transcription-coupled nucleotide-excision repair
Research Articles on POLD2	**1.** Inhibition of DNA polymerases a, delra and e by AFP promoter-driven artificial microRNAs may lead to effective growth arrest of AFP-positive HCC cells,as novel strategy for gene therapy
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