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Product datasheet for PH301793

DNA polymerase delta p50 (POLD2) (NM_006230) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	POLD2 MS Standard C13 and N15-labeled recombinant protein (NP_006221)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201793
Predicted MW:	51.3 kDa
Protein Sequence:	>RC201793 protein sequence Red=Cloning site Green=Tags(s) MFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHIYATRLIQMRPFLENRAQ QHWGSGVGVKKLCELQPEEKCCVVGTLFKAMPLQPSILREVSEEHNLLPQPPRSKYIHPDDELVLEDELQ RIKLKGTIDVSKLVTGTVLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTDRFVLLVSGLGLGGGGGE SLLGTQLLVDVVTGQLGDEGEQCSAAHVSRVILAGNLLSHSTQSRDSINKAKYLTKKTQAASVEAVKMLD EILLQLSASVPVDVMPGEFDPTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFLGTSGQNVS DIFRYSSMEDHLEILEWTLRVRHISPTAPDTLGCYPFYKTDPFIFPECPHVYFCGNTPSFGSKIIRGPED QTVLLVTVPDFSATQTACLVNLRSLACQPISFSGFGAEDDDLGGLGLGP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_006221
RefSeq Size:	1648
RefSeq ORF:	1407
Locus ID:	5425

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UniProt ID: P49005, A0A087WWF6

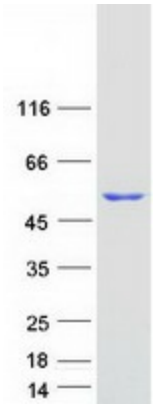
Cytogenetics: 7p13

Summary: 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]

Protein Families: Stem cell - Pluripotency

Protein Pathways: Base excision repair, DNA replication, Homologous recombination, Metabolic pathways, Mismatch repair, Nucleotide excision repair, Purine metabolism, Pyrimidine metabolism

Product images:



Coomassie blue staining of purified POLD2 protein (Cat# [TP301793]). The protein was produced from HEK293T cells transfected with POLD2 cDNA clone (Cat# [RC201793]) using MegaTran 2.0 (Cat# [TT210002]).