

Recombinant Human POLE2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. POLE2-2637H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POLE2 MS Standard C13 and N15-labeled recombinant protein (NP_002683) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	DNA polymerase epsilon, which is involved in DNA repair and replication, is composed of a large catalytic subunit and a small accessory subunit. The protein encoded by this gene represents the small subunit (B). Defects in this gene have been linked to colorectal cancer and to combined immunodeficiency.
Molecular Mass	59.5 kDa
AA Sequence	MAPERLRSRALSFAFKLRGLLLRGEAIKYLTEALQSISELELEDKLEKIINAVEKQPLSS NMIERSVVEAAVQECSQSVDETIEHVFNIGAFDIPRFVYNSERKKFLPLLMTNHPAP NLFGTPRDKAEMFRERYTILHQRTHRHELFTPPVIGSHPDSESGSKFQLKTITLLGST TKIGDAIVLGMITQLKEGKFFLEDPTGTVQLDLSKAQFHSGLYTEACFVLAEGWFED QVFHVNAFGFPPTPEPSSTTRAYYGNINFFGGPSNTSVKTSALKLKQLEENKDAMFVF LSDVWLDQVEVLEKLRIMFAGYSPAPPTCFILCGNFSSAPYGKNQVQALKDSLKTALA DIICEYPDIHQSSRFVFPVPGPEDPGFGSILPRPPLAESITNEFRQRPFSVFTTNPCRI QYCTQEITVFREDLVNKMCRNCVRFPSNLAIPNHFVKITLSQGHLTPLPLYVCPVY WAYDYALRVYPVPDLLVIADKYDPFTTTNTECLCINPGSFPRSGFSFKVFYPSNKTVE

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DSKLQGFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	POLE2 DNA polymerase epsilon 2, accessory subunit [Homo sapiens (human)]
Official Symbol	POLE2
Synonyms	POLE2; polymerase (DNA directed), epsilon 2 (p59 subunit); DNA polymerase epsilon subunit 2; DPE2; DNA polymerase II subunit 2; DNA polymerase epsilon subunit B;
Gene ID	5427
mRNA Refseq	NM_002692
Protein Refseq	NP_002683
MIM	602670

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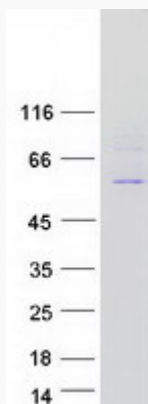
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UniProt ID

P56282

SDS-PAGE

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