

Product datasheet for PH317354

DNA polymerase eta (POLH) (NM_006502) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	POLH MS Standard C13 and N15-labeled recombinant protein (NP_006493)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217354
Predicted MW:	78.2 kDa
Protein Sequence:	>RC217354 representing NM_006502 Red=Cloning site Green=Tags(s)
	MATGQDRVVALVDMDCFFVQVEQRQNPFLRNKPCAVVQYKSWKGGGIIAVSYEARAFGVTRSMWADDAKK LCPDLLLAQVRESRGKANLTKYREASVEVMEIMSRFAVIERASIDEAYVDLTSVQERLQKLQGGQPI SAD LLPSTYIEGLPQGPTTAEETVQKEGMRKQGLFQWLDLQIDNLTSPDLQLTVGAVIVEEMRAAIERETGF QCSAGISHNKVLAKLACGLNKPQRQLVSHGSPQLFSQMPPIRIRSLGGKLGASVIEILGIEYMGELTQ FTESQLQSHFGEKNGSWLYAMCRGIEHDPVKPRQLPKTIGCSKNFPGKTALATREQVQWLLQLAQELEE RLTKDRNDNRVATQLVVSIRVQGDKRLSSLRCCALTRYDAHKMSHDAFTVIKNCNTSGIQTEWSPPLT MLFLCATKFSASAPSSSDITISFLSSDPSSLPKVPVTSSEAKTQSGSPAVTATKATTSLEFFQKAAER QKVKEASLSSLTAPTQAPMSNSPSKPSLPFQTSQSTGTEPFFKQKSLLLKQKQLNNSVSSPQQNPWSNC KALPNSLPTEYPGVPCVCEGVSKLEESSKATPAEMDLAHSQSMHASSASKSVLEVTQKATPNPSLLAAE DQVPCEKCGSLVPVWDMPEHMDYHFALELQKSFLQPHSSNPQVVS AVSHQGRNPKSPLACTNKRPRPEG MQTLESFFKPLTH
	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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_006493



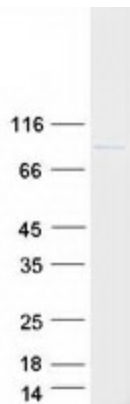
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RefSeq Size:	3464
RefSeq ORF:	2139
Synonyms:	RAD30; RAD30A; XP-V; XPV
Locus ID:	5429
UniProt ID:	Q9Y253 , A0A024RD62
Cytogenetics:	6p21.1

Summary: This gene encodes a member of the Y family of specialized DNA polymerases. It copies undamaged DNA with a lower fidelity than other DNA-directed polymerases. However, it accurately replicates UV-damaged DNA; when thymine dimers are present, this polymerase inserts the complementary nucleotides in the newly synthesized DNA, thereby bypassing the lesion and suppressing the mutagenic effect of UV-induced DNA damage. This polymerase is thought to be involved in hypermutation during immunoglobulin class switch recombination. Mutations in this gene result in XPV, a variant type of xeroderma pigmentosum. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified POLH protein (Cat# [TP317354]). The protein was produced from HEK293T cells transfected with POLH cDNA clone (Cat# [RC217354]) using MegaTran 2.0 (Cat# [TT210002]).