

Recombinant Human POLH cell lysate

Cat. No. POLH-1392HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	POLH polymerase (DNA directed), eta [Homo sapiens]
Official Symbol	POLH

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Synonyms	POLH; polymerase (DNA directed), eta; DNA polymerase eta; RAD30A; XP V; RAD30 homolog A; xeroderma pigmentosum variant type protein; XPV; XP-V; RAD30; FLJ16395; FLJ21978;
Gene ID	5429
mRNA Refseq	NM_006502
Protein Refseq	NP_006493
MIM	603968
UniProt ID	Q9Y253
Chromosome Location	6p21
Pathway	DNA Damage Bypass, organism-specific biosystem; DNA Repair, organism-specific biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem; Translesion synthesis by DNA polymerases bypassing lesion on DNA template, organism-specific biosystem; Translesion synthesis by Pol eta, organism-specific biosystem;
Function	DNA-directed DNA polymerase activity; DNA-directed DNA polymerase activity; damaged DNA binding; metal ion binding; nucleotidyltransferase activity; transferase activity;