

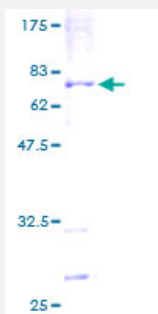
Full-Length

POLH (Human) Recombinant Protein (P01)

Catalog # H00005429-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human POLH full-length ORF (AAH15742, 1 a.a. - 414 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MATGQDRVVALVDMDCFFVQVEQRQNPHLRNKPCAVVQYKSWKGGGIIAVSYEARAFGVTRSM
WADDAKKLCPDLLLAQVRESRGKANLTKYREASVEVMEIMSRFAVIERASIDEAYVDLTSVQER
LQKLQGQPISADLLPSTYIEGLPQGPTTAEETVQKEGMRKQGLFQWLDLQIDNLTSPDLQLTVGA
VIVEEMRAAIERETGFQCSAGISHNKVLAKLACGLNKPNRQTLVSHGSVPQLFSQMPIRKIRSLGG
KLGASVIEILGIEYMGELTQFTESQLQSHFGEKNGSWLYAMCRGIEHDPVKPRQLPKTIGCSKNFP
GKTALATREQVQWWLLQLAQELEERLTKDRNDNDRVATQLVVSIRVQGDKRLSSLRCCALTRY
DAHKMSHDAFTVIKNCNTSGIQTE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

71.28

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — POLH

Entrez GeneID [5429](#)

GeneBank Accession# [BC015742](#)

Protein Accession# [AAH15742](#)

Gene Name POLH

Gene Alias FLJ16395, FLJ21978, RAD30, RAD30A, XP-V, XPV

Gene Description polymerase (DNA directed), eta

Omim ID [278750 603968](#)

Gene Ontology [Hyperlink](#)

Gene 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 XP V, a variant type of xeroderma pigmentosum. [provided by RefSeq]

Other Designations OTTHUMP00000016478|OTTHUMP00000039868

Disease

- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Melanoma](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Sunburn](#)
- [Urinary Bladder Neoplasms](#)
- [Xeroderma Pigmentosum](#)