

## Recombinant Human POLH protein

Cat. No. POLH-1523H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human POLH protein was expressed in E. coli.                                                                                                                                                                                                  |
| Species          | Human                                                                                                                                                                                                                                                     |
| Source           | E.coli                                                                                                                                                                                                                                                    |
| Description      | DNA polymerase $\eta$ is a member of the Y family DNA polymerases. It is involved in translesion synthesis, either error-free or error-prone, depending on the specific types of DNA lesion. Deficiency of Pol $\eta$ in humans leads to the XPV disease. |
| Molecular Mass   | 78 kDa                                                                                                                                                                                                                                                    |
| Usage            | Reaction Buffer: 25 mM potassium phosphate (pH 7.0), 5 mM MgCl <sub>2</sub> , 5 mM DTT, 100 $\mu$ g/ml BSA, 10% glycerol, 50-100 $\mu$ M dNTPs.<br>Dilution Buffer: 25 mM Tris-HCl (pH 7.5), 2.5 mM $\beta$ -mercaptoethanol, 50% glycerol.               |

### GENE INFORMATION

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

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|                |           |
|----------------|-----------|
| Gene ID        | 5429      |
| mRNA Refseq    | NM_006502 |
| Protein Refseq | NP_006493 |
| MIM            | 603968    |
| UniProt ID     | Q9Y253    |

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