

## Recombinant Human WRN Protein, 517-1093, N-GST tagged

Cat. No. WRN-12H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human WRN (Werner syndrome ATP-dependent helicase), encompassing amino acids 517-1093. This construct contains an N-terminal GST-tag followed by a Thrombin cleavage site. The recombinant protein was affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 517-1093                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes a member of the RecQ subfamily of DNA helicase proteins. The encoded nuclear protein is important in the maintenance of genome stability and plays a role in DNA repair, replication, transcription and telomere maintenance. This protein contains a N-terminal 3' to 5' exonuclease domain, an ATP-dependent helicase domain and RQC (RecQ helicase conserved region) domain in its central region, and a C-terminal HRDC (helicase RNase D C-terminal) domain and nuclear localization signal. Defects in this gene are the cause of Werner syndrome, an autosomal recessive disorder characterized by accelerated aging and an elevated risk for certain cancers. |
| <b>Form</b>             | Aqueous buffer solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 92 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | 0.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>          | Avoid freeze/thaw cycles                                                                                                                                                                           |
| <b>Usage</b>          | Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles. |
| <b>Storage</b>        | At least 6 months at -80 centigrade.                                                                                                                                                               |
| <b>Storage Buffer</b> | 40 mM Tris-HCl, pH 8.0, 200 mM NaCl, 2.2 mM KCl, 0.05% Tween-20, 10 mM glutathione, 1 mM TCEP, and 20% glycerol                                                                                    |
| <b>Shipping</b>       | At -80 centigrade                                                                                                                                                                                  |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | WRN WRN RecQ like helicase [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b> | WRN                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>        | WRN; WRN RecQ like helicase; RECQ3; RECQL2; RECQL3; bifunctional 3'-5' exonuclease/ATP-dependent helicase WRN; DNA helicase, RecQ-like type 3; Werner syndrome ATP-dependent helicase; Werner syndrome RecQ like helicase; Werner syndrome protein; Werner syndrome, RecQ helicase-like; exonuclease WRN; recQ protein-like 2; EC 3.6.4.12 |
| <b>Gene ID</b>         | 7486                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_000553                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_000544                                                                                                                                                                                                                                                                                                                                  |

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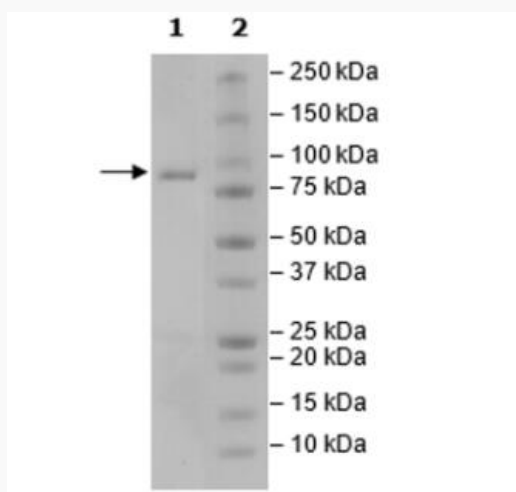
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SDS-PAGE



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