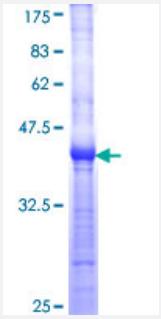
# WRN (Human) Recombinant Protein (Q01)

Catalog # H00007486-Q01 Size 10 ug, 25 ug

## Applications




## Specification

| | |
|---|---|
| **Product Description** | Human WRN partial ORF ( NP_000544, 1322 a.a. - 1432 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Sequence** | NPPVNSDMSKISLIRMLAPENIDTYLIHMAIEILKHGPDSGLQPSCDVNKRRCFPGSEEICSSSKRS KEEVGINTETSSAERKRRLPVWFAKGSDTSKKLMDKTKRGGLFS |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 37.95 |
| **Interspecies Antigen Sequence** | Mouse (61) |
| **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 — WRN

| | |
|---|---|
| **Entrez GeneID** | 7486 |
| **GeneBank Accession#** | NM_000553 |
| **Protein Accession#** | NP_000544 |
| **Gene Name** | WRN |
| **Gene Alias** | DKFZp686C2056, RECQ3, RECQL2, RECQL3 |
| **Gene Description** | Werner syndrome |
| **Omim ID** | 277700 604611 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a member of the RecQ subfamily and the DEAH (Asp-Glu-Ala-His) subfamily of DNA and RNA helicases. DNA helicases are involved in many aspects of DNA metabolism, in cluding transcription, replication, recombination, and repair. This protein contains a nuclear localiz ation signal in the C-terminus and shows a predominant nucleolar localization. It possesses an intr insic 3' to 5' DNA helicase activity, and is also a 3' to 5' exonuclease. Based on interactions betw een this protein and Ku70/80 heterodimer in DNA end processing, this protein may be involved in the repair of double strand DNA breaks. Defects in this gene are the cause of Werner syndrome, an autosomal recessive disorder characterized by premature aging. [provided by RefSeq |
| **Other Designations** | Werner Syndrome helicase\|Werner syndrome protein |

## Publication Reference

- WRN protein as a novel erythroblast immunohistochemical marker with applications for the diagnosis of Werner syndrome.

  Sadahira Y, Sugihara T, Fujiwara H, Nishimura H, Suetsugu Y, Takeshita M, Okamura S, Goto M.

  Virchows Archiv 2015 Mar; 466(3):343.

  Application: WB, Rabbit, Anti-WRN antibody

## Disease

- Adenocarcinoma
- Alzheimer disease
- Arteriosclerosis
- Atherosclerosis
- Bone Neoplasms
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Cataract
- Chronic Disease
- Cognition
- Cognition Disorders
- Colorectal Neoplasms
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease

- Glioma
- Hematologic Diseases
- Hodgkin Disease
- Hypertension
- Intelligence Tests
- Intermittent Claudication
- Kidney Diseases
- Kidney Failure
- Lung Neoplasms
- Lymphoma
- Lymphoproliferative Disorders
- Meningeal Neoplasms
- Meningioma
- Metabolic Syndrome X
- Multiple Sclerosis
- Myocardial Infarction
- Neoplasms
- Neuropsychological Tests
- Obesity
- Occupational Diseases
- Osteoporosis
- Pulmonary Disease
- Renal Insufficiency
- Sarcoma
- Spinal Osteophytosis
- Tobacco Use Disorder

- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome