Recombinant Human WRN

Cat. No. WRN-30699TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Werners syndrome helicase WRN with a proprietary tag: predicted molecular weight 37.84 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	111 amino acids
Description	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, including transcription, replication, recombination, and repair. This protein contains a nuclear localization signal in the C-terminus and shows a predominant nucleolar localization. It possesses an intrinsic 3 to 5 DNA helicase activity, and is also a 3 to 5 exonuclease. Based on interactions between 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.
Molecular Weight	37.840kDa inclusive of tags
Biological activity	useful for Antibody Production and Protein Array
Form	Liquid

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NPPVNSDMSKISLIRMLVPENIDTYLIHMAIEILKHGPDSGLQPSCDVNKRRCFPGSEEICSSSKRSKEEVGINTETSSAERKRRLPVWFAKGSDTSKKLMDKTKRGGLFS
Sequence Similarities	Belongs to the helicase family. RecQ subfamily.Contains 1 3-5 exonuclease domain.Contains 1 helicase ATP-binding domain.Contains 1 helicase C-terminal domain.Contains 1 HRDC domain.

GENE INFORMATION

Gene Name	WRN Werner syndrome, RecQ helicase-like [Homo sapiens]
Official Symbol	WRN
Synonyms	WRN; Werner syndrome, RecQ helicase-like; Werner syndrome; Werner syndrome ATP-dependent helicase; RECQ3; RECQL2;
Gene ID	7486
mRNA Refseq	NM_000553
Protein Refseq	NP_000544
MIM	604611

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Uniprot ID	Q14191
Chromosome Location	8p12
Pathway	Regulation of Telomerase, organism-specific biosystem;
Function	3-5 DNA helicase activity; 3-5 exonuclease activity; ATP binding; ATP-dependent 3-5 DNA helicase activity; ATP-dependent DNA helicase activity;

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