abcam

Product datasheet

Recombinant Human Werner's syndrome helicase WRN protein ab112372

画像数 1

製品の詳細

製品名	Recombinant Human Werner's syndrome helicase WRN protein
生理活性	useful for Antibody Production and Protein Array
発現系	Wheat germ
アクセッション番号	Q14191
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
配列	NPPVNSDMSKISLIRMLVPENIDTYLIHMAIEILKHGPDSGL QPSCDVNK RRCFPGSEEICSSSKRSKEEVGINTETSSAERKRRLPVWFAK GSDTSKKL MDKTKRGGLFS
予測される分子量	38 kDa including tags
領域	1322 to 1432

特性

Our **Abpromise guarantee** covers the use of **ab112372** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Western blot ELISA SDS-PAGE
製品の状態	Liquid
備考	This product is useful for Antibody Production and Protein Array.

前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.

pH: 8.00
Constituents: 0.31% Glutathione, 0.79% Tris HCl

Glutathione is reduced

関連情報

機能

Multifunctional enzyme that has both magnesium and ATP-dependent DNA-helicase activity and 3'->5' exonuclease activity towards double-stranded DNA with a 5'-overhang. Has no nuclease activity towards single-stranded DNA or blunt-ended double-stranded DNA. Binds preferentially to DNA substrates containing alternate secondary structures, such as replication forks and Holliday junctions. May play an important role in the dissociation of joint DNA molecules that can arise as products of homologous recombination, at stalled replication forks or during DNA repair. Alleviates stalling of DNA polymerases at the site of DNA lesions. Important for genomic integrity. Plays a role in the formation of DNA replication focal centers; stably associates with foci elements generating binding sites for RP-A.

関連疾患

Defects in WRN are a cause of Werner syndrome (WRN) [MIM:277700]. WRN is a rare autosomal recessive progeroid syndrome characterized by the premature onset of multiple age-related disorders, including atherosclerosis, cancer, non-insulin-dependent diabetes mellitus, ocular cataracts and osteoporosis. The major cause of death, at a median age of 47, is myocardial infarction. Currently all known WS mutations produces prematurely terminated proteins.
Defects in WRN may be a cause of colorectal cancer (CRC) [MIM:114500].

配列類似性

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.

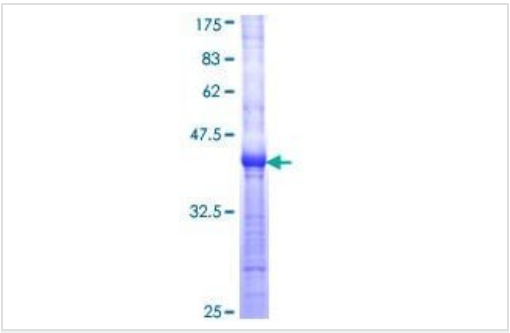
翻訳後修飾

Phosphorylated by PRKDC. Phosphorylated upon DNA damage, probably by ATM or ATR.

細胞内局在

Nucleus > nucleolus. Nucleus.

画像



SDS-PAGE - Recombinant Human Werner's syndrome helicase WRN protein (ab112372)

ab112372 analysed by 12.5% SDS-PAGE and stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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