ELK Biotechnology

WRN (phospho Ser1141) rabbit pAb

Cat No.:ES7518

For research use only

Overview

Product Name	WRN (phospho Ser1141) rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Werner Syndrome Helicase around the phosphorylation site of Ser1141. AA range:1107-1156
Specificity	Phospho-WRN (S1141) Polyclonal Antibody detects endogenous levels of WRN protein only when phosphorylated at S1141.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Werner syndrome ATP-dependent helicase
Gene Name	WRN
Cellular localization	Nucleus, nucleolus . Nucleus . Nucleus, nucleoplasm . Chromosome . Gamma-irradiation leads to its translocation from nucleoli to nucleoplasm and PML regulates the irradiation-induced WRN relocation (PubMed:21639834). Localizes to DNA damage sites (PubMed:
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	162kD
Human Gene ID	7486
Human Swiss-Prot Number	Q14191

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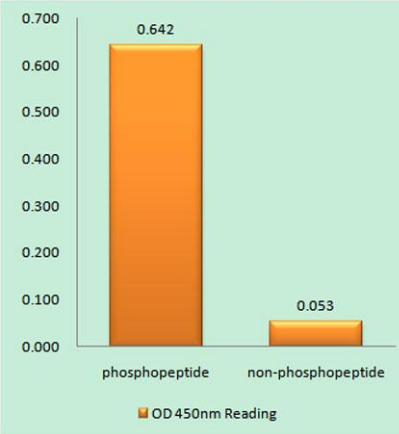
Alternative Names

WRN; RECQ3; RECQL2; Werner syndrome ATP-dependent helicase; DNA helicase; RecQ-like type 3; RecQ3; Exonuclease WRN; RecQ protein-like 2

Background

Werner syndrome RecQ like helicase(WRN) Homo sapiens 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. [provided by RefSeq, Jul 2008],



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Werner Syndrome Helicase (Phospho-Ser1141) Antibody

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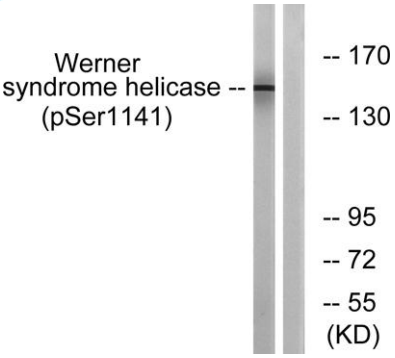

Western blot analysis of lysates from K562 cells treated with etoposide 25uM 24h, using Werner Syndrome Helicase (Phospho-Ser1141) Antibody. The lane on the right is blocked with the phospho peptide.

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