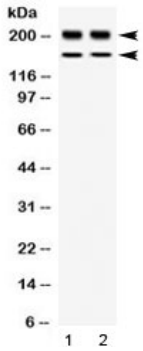
WRN Antibody / Werner syndrome ATP-dependent helicase (R32575)

Catalog No.	Formulation	Size
R32575	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q14191
Applications	Western blot : 0.5-1ug/ml
Limitations	This WRN antibody is available for research use only.



Western blot testing of 1) rat thymus and 2) human placenta lysate with WRN antibody at 0.5ug/ml. Observed molecular weight: ~162 and 200 kDa.

Description

Werner syndrome ATP-dependent helicase, also known as DNA helicase, RecQ-like type 3, is an enzyme that in humans is encoded by the WRN gene. 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.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the WRN antibody to be titrated for optimal performance.

Immunogen

Amino acids Q122-N240 from the human protein were used as the immunogen for the WRN antibody.

Storage

After reconstitution, the WRN antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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