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WRN Antibody (monoclonal) (M09)

Mouse monoclonal antibody raised against a partial recombinant WRN.
Catalog # AT4544a

Product Information

Application	WB, IF, E
Primary Accession	Q14191
Other Accession	NM_000553
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3C11
Calculated MW	162461

Additional Information

Gene ID	7486
Other Names	Werner syndrome ATP-dependent helicase, DNA helicase, RecQ-like type 3, RecQ3, Exonuclease WRN, 31--, RecQ protein-like 2, WRN, RECQ3, RECQL2
Target/Specificity	WRN (NP_000544, 1322 a.a. ~ 1432 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	WRN Antibody (monoclonal) (M09) is for research use only and not for use in diagnostic or therapeutic procedures.

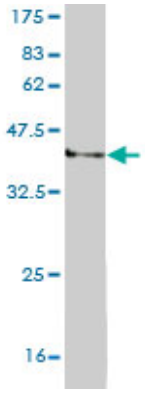
Background

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.

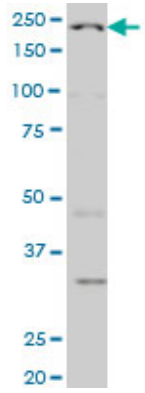
References

Lack of association of the WRN C1367T polymorphism with senile cataract in the Israeli population. Ehrenberg M, et al. Mol Vis, 2010 Aug 28. PMID 20808731.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Variation within DNA repair pathway genes and risk of multiple sclerosis. Briggs FB, et al. Am J Epidemiol, 2010 Jul 15. PMID 20522537.Identification of a coiled coil in werner syndrome protein that facilitates multimerization and promotes exonuclease processivity. Perry JJ, et al. J Biol Chem, 2010 Aug 13. PMID 20516064.Centrosome-related genes, genetic variation, and risk of breast cancer. Olson JE, et al. Breast Cancer Res Treat, 2010 May 28. PMID 20508983.

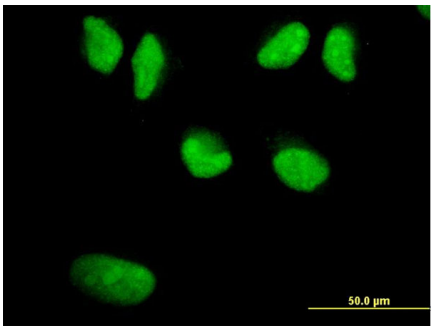
Images



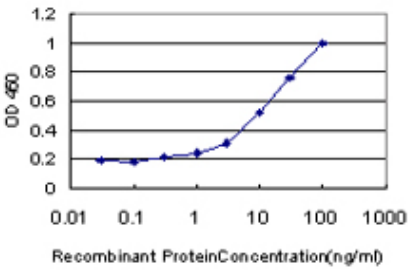
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.95 KDa) .



WRN monoclonal antibody (M09), clone 3C11 Western Blot analysis of WRN expression in Hela S3 NE ((Cat # AT4544a)



Immunofluorescence of monoclonal antibody to WRN on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged WRN is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.