

**WRN Antibody (monoclonal) (M09)****Mouse monoclonal antibody raised against a partial recombinant WRN.****Catalog # AT4544a****Specification**

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**WRN Antibody (monoclonal) (M09) - Product Information**

Application	WB, IF, E
Primary Accession	<a href="#">Q14191</a>
Other Accession	<a href="#">NM_000553</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	162461

**WRN Antibody (monoclonal) (M09) - 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.

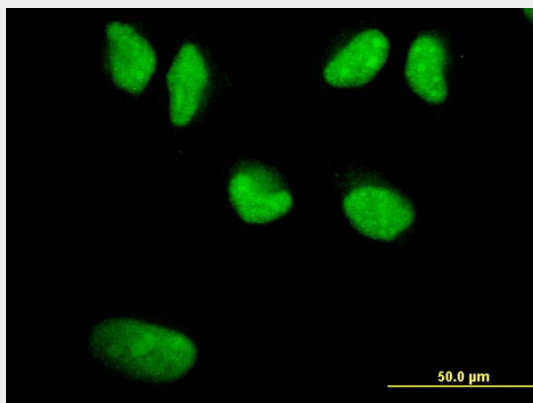
**WRN Antibody (monoclonal) (M09) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

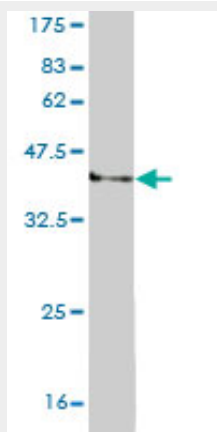
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

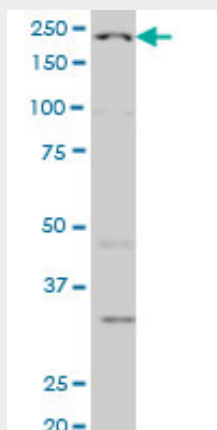
#### WRN Antibody (monoclonal) (M09) - Images



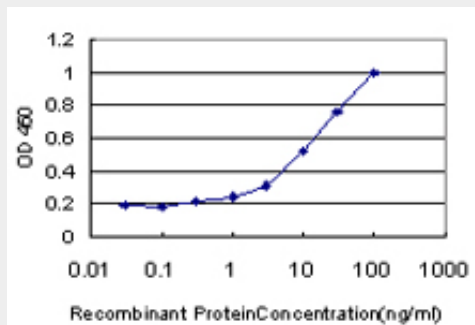
Immunofluorescence of monoclonal antibody to WRN on HeLa cell. [antibody concentration 10 ug/ml]



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 )



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

### **WRN Antibody (monoclonal) (M09) - 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.

### **WRN Antibody (monoclonal) (M09) - 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 Thiazolidinedione-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.