

# Anti-Werner's syndrome helicase WRN antibody [EPR6392] ab124673

KO 評価済 リコンビナント RabMAb

★★★★☆ 1 Abreviews 2 References 画像数 4

### 製品の概要

製品名	Anti-Werner's syndrome helicase WRN antibody [EPR6392]
製品の詳細	Rabbit monoclonal [EPR6392] to Werner's syndrome helicase WRN
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB <b>適用なし:</b> Flow Cyt, ICC/IF, IHC-P or IP
種交差性	<b>交差種:</b> Human <b>非交差種:</b> Mouse, Rat
免疫原	Synthetic peptide within Human Werner's syndrome helicase WRN aa 1400-1500 (C terminal). The exact sequence is proprietary.
ポジティブ・コントロール	WB: HAP1, MOLT 4, K562 and A431 cell lysates.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR6392
アイソタイプ	IgG

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、**次のテスト済みアプリケーションにおけるab124673の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 200 kDa (predicted molecular weight: 162 kDa).

**追加情報** Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

## ターゲット情報

**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.

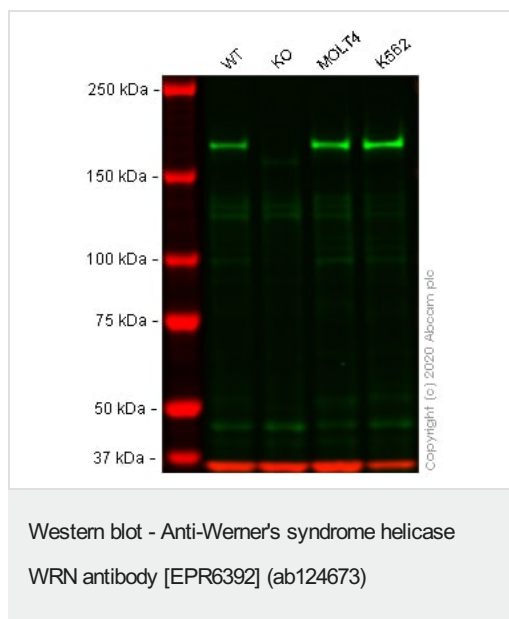
**関連疾患** Defects in WRN are a cause of Werner syndrome (WRN) [MIM:277700]. WRN is a rare autosomal recessive progeroid syndrome characterized by the premature onset of multiple age-related disorders, including atherosclerosis, cancer, non-insulin-dependent diabetes mellitus, ocular cataracts and osteoporosis. 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



**All lanes :** Anti-Werner's syndrome helicase WRN antibody [EPR6392] (ab124673) at 1/1000 dilution

**Lane 1 :** Wild-type HAP1 cell lysate

**Lane 2 :** WRN knockout HAP1 cell lysate

**Lane 3 :** MOLT-4 cell lysate

**Lane 4 :** K562 cell lysate

Lysates/proteins at 20 µg per lane.

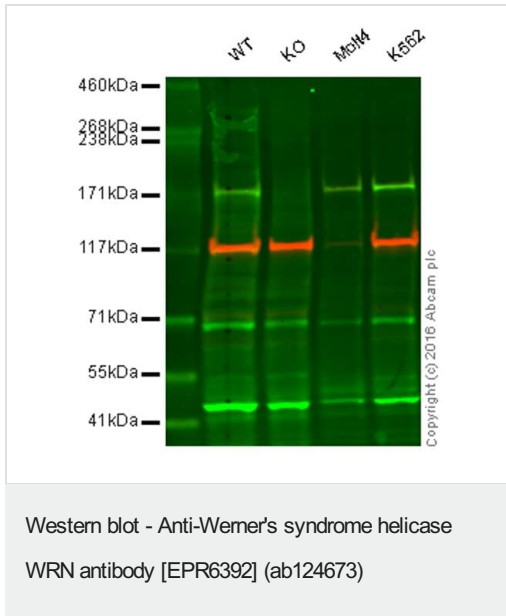
Performed under reducing conditions.

**Predicted band size:** 162 kDa

**Observed band size:** 170 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab124673 observed at 170 kDa. Red - loading control, [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab124673 was shown to react with Werner's syndrome helicase WRN in wild-type HAP1 cells in western blot. Loss of signal was observed when WRN knockout sample was used. Wild-type and WRN knockout HAP1 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab124673 and [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

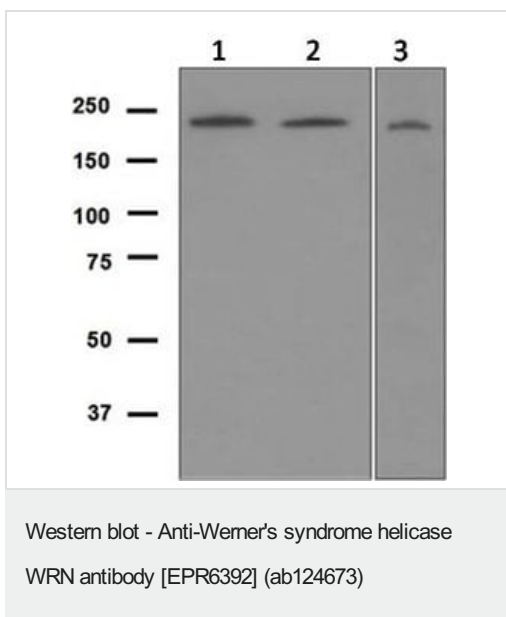
**Lane 2:** Werner's syndrome helicase WRN knockout HAP1 cell lysate (20 µg)

**Lane 3:** MOLT4 cell lysate (20 µg)

**Lane 4:** K562 cell lysate (20 µg)

**Lanes 1 to 4:** Merged signal (red and green). Green - ab124673 observed at 170 kDa. Red - loading control, **ab181602**, observed at 124 kDa.

ab124673 was shown to recognize Werner's syndrome helicase WRN when Werner's syndrome helicase WRN knockout samples were used, along with additional cross-reactive bands. Wild-type and Werner's syndrome helicase WRN knockout samples were subjected to SDS-PAGE. ab124673 and **ab181602** (loading control to GAPDH) were both diluted at 1/1000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed **ab216772** and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed **ab216777** secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.



**All lanes :** Anti-Werner's syndrome helicase WRN antibody [EPR6392] (ab124673) at 1/1000 dilution

**Lane 1 :** MOLT4 cell lysates

**Lane 2 :** K562 cell lysates

**Lane 3 :** A431 cell lysates

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** Goat anti-Rabbit HRP at 1/2000 dilution

**Predicted band size:** 162 kDa

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Werner's syndrome helicase WRN antibody  
[EPR6392] (ab124673)

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

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