

Product datasheet

FEN1 overexpression 293T lysate (whole cell) ab94222

2 Images

Overview

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<b>Product name</b>	FEN1 overexpression 293T lysate (whole cell)
<b>General notes</b>	ab94222 is a 293T cell transfected lysate in which Human FEN1 has been transiently over-expressed using a pCMV-FEN1 plasmid. The lysate is provided in 1X Sample Buffer. <b>Note:</b> For more detailed how the transfected lysate was prepared <a href="#">view preparation notes</a>
<b>Tested applications</b>	<b>Suitable for:</b> WB

Properties

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<b>Mycoplasma free</b>	Yes
<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped on dry ice. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Constituents: 0.01% Bromophenol blue, 2.3% Beta mercaptoethanol, 2% Sodium lauryl sulfate, 0.788% Tris HCl, 10% Glycerol (glycerin, glycerine)
<b>Background</b>	Function: Structure-specific nuclease with 5'-flap endonuclease and 5'-3' exonuclease activities involved in DNA replication and repair. During DNA replication, cleaves the 5'-overhanging flap structure that is generated by displacement synthesis when DNA polymerase encounters the 5'-end of a downstream Okazaki fragment. It enters the flap from the 5'-end and then tracks to cleave the flap base, leaving a nick for ligation. Also involved in the long patch base excision repair (LP-BER) pathway, by cleaving within the apurinic/aprimidinic (AP) site-terminated flap. Acts as a genome stabilization factor that prevents flaps from equilibrating into structures that lead to duplications and deletions. Also possesses 5'-3' exonuclease activity on nicked or gapped double-stranded DNA, and exhibits RNase H activity. Also involved in replication and repair of rDNA and in repairing mitochondrial DNA. Similarity: Belongs to the XPG/RAD2 endonuclease family. FEN1 subfamily. PTM: Acetylated by EP300. Acetylation inhibits both endonuclease and exonuclease activity. Acetylation also reduces DNA-binding activity but does not affect interaction with PCNA or EP300. Phosphorylation upon DNA damage induces relocalization to the nuclear plasma. Phosphorylation at Ser-187 by CDK2 occurs during late S-phase and results in dissociation from PCNA. Methylation at Arg-192 by PRMT5 impedes Ser-187 phosphorylation and increases interaction with PCNA.

Applications

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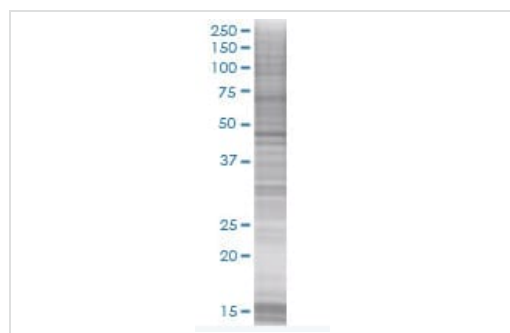
## The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of **ab94222** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

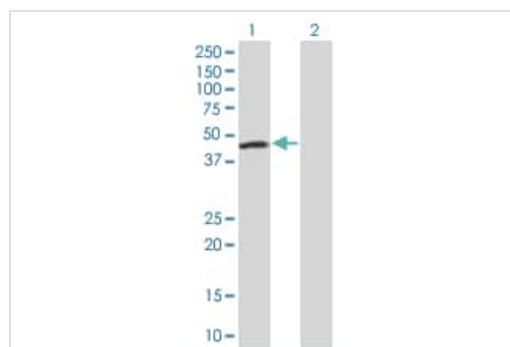
Application	Abreviews	Notes
WB		Use at an assay dependent dilution.

## Images



SDS-PAGE - FEN1 overexpression 293T lysate  
(whole cell) (ab94222)

ab94222 at 15µg/lane on an SDS-PAGE gel.



Western blot - FEN1 overexpression 293T lysate  
(whole cell) (ab94222)

**All lanes :** Anti-FEN1 antibody ([ab76931](#)) at 1/500 dilution

**Lane 1 :** FEN1 overexpression 293T lysate (whole cell) (ab94222)

**Lane 2 :** 293T non-transfected lysate

Lysates/proteins at 25 µg per lane.

### Secondary

**All lanes :** Goat Anti-mouse IgG (H and L) HRP conjugated at 1/2500 dilution

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

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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