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Datasheet for ABIN2782482  
**anti-FEN1 antibody (N-Term)**

3 Images

Overview

Quantity:	100 µL
Target:	FEN1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Sheep, Horse, Pig, Guinea Pig, Rabbit, Dog, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FEN1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Sequence:	APSAIRENDI KSYFGRKVAI DASMSIQFL IAVRQGGDVL QNEEGETTSH
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 93%, Rat: 100%, Sheep: 100%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against FEN1. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	FEN1
Alternative Name:	FEN1 ( <a href="#">FEN1 Products</a> )
Background:	FEN1 removes 5' overhanging flaps in DNA repair and processes the 5' ends of Okazaki

## Target Details

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fragments in lagging strand DNA synthesis. Direct physical interaction between this protein and AP endonuclease 1 during long-patch base excision repair provides coordinated loading of the proteins onto the substrate, thus passing the substrate from one enzyme to another. The protein is a member of the XPG/RAD2 endonuclease family and is one of ten proteins essential for cell-free DNA replication. DNA secondary structure can inhibit flap processing at certain trinucleotide repeats in a length-dependent manner by concealing the 5' end of the flap that is necessary for both binding and cleavage by the protein encoded by this gene. Therefore, secondary structure can deter the protective function of this protein, leading to site-specific trinucleotide expansions.

Alias Symbols: FEN-1, MF1, RAD2

Protein Interaction Partner: SUMO2, SUMO3, PCNA, UBC, SHFM1, ELAC2, TNPO3, PPP2R5D, HARS, LPP, PFDN1, WRN, AICDA, RAD1, FN1, PAXIP1, APP, VRK1, RAP1A, cdt1, TERF1, RAD21, GSK3B, ENDOG, DDX11, NCAPG, EP300, BLM, EEF1G, ARHGDI1, HNRNPA1, CDK2, CDK1, APEX1, RAD9A, HUS1, CCNA2,

Protein Size: 380

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Molecular Weight: 42 kDa

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Gene ID: 2237

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NCBI Accession: [NM\\_004111](#), [NP\\_004102](#)

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UniProt: [P39748](#)

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Pathways: [Telomere Maintenance](#), [DNA Damage Repair](#), [DNA Replication](#), [Synthesis of DNA](#)

## Application Details

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Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

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Comment: Antigen size: 380 AA

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: Lot specific

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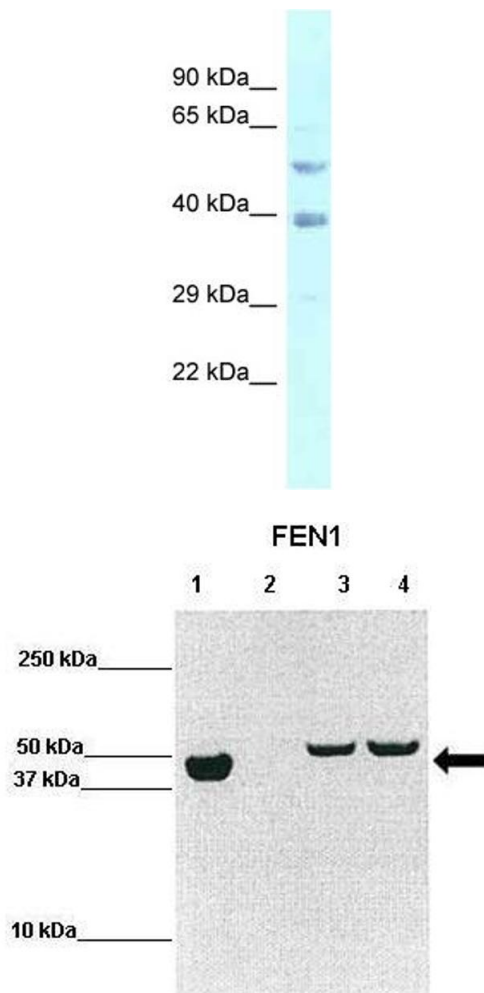
Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

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## Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images

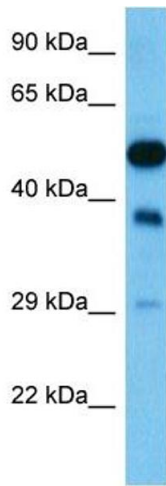


### Western Blotting

**Image 1.** WB Suggested Anti-FEN1 Antibody Titration: 1.0 ug/ml Positive Control: 293T Whole Cell FEN1 is supported by BioGPS gene expression data to be expressed in HEK293T

### Western Blotting

**Image 2.** WB Suggested Anti-FEN1 Antibody Positive Control: Lane1: hFEN1 (1-336), Lane2: uninduced BL21, Lane3: 2h induced BL21, Lane4: overnight induced BL21 Primary Antibody Dilution : 1:2000 Secondary Antibody : Goat anti-rabbit-HRP Secondary Antibody Dilution : 1:10,000 Submitted by: Prof. Jon R Sayers, University of Sheffield Medical School



### Western Blotting

**Image 3.** Host: Mouse Target Name: FEN1 Sample Tissue: Mouse Testis Antibody Dilution: 1ug/ml