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Product datasheet for TA339264

FEN1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-FEN1 antibody: synthetic peptide directed towards the C terminal of human FEN1. Synthetic peptide located within the following region: PNEEELIKFMCGEKQFSEERIRSGVKRLSKSRQGSTQGRLDDFFKVTGSL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. *Note that this product is shipped as lyophilized powder to China customers.*
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	42 kDa
Gene Name:	flap structure-specific endonuclease 1
Database Link:	NP_004102 Entrez Gene 2237 Human P39748

View online »

Background: The protein encoded by this gene removes 5' overhanging flaps in DNA repair and processes the 5' ends of Okazaki 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. [provided by RefSeq, Jul 2008]

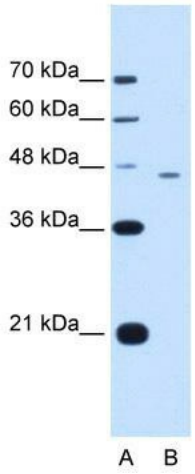
Synonyms: FEN-1; MF1; RAD2

Note: Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Sheep: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%; Zebrafish: 93%

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Base excision repair, DNA replication, Non-homologous end-joining

Product images:



WB Suggested Anti-FEN1 Antibody Titration: 1.25 ug/ml; Positive Control: HepG2 cell lysate.FEN1 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells