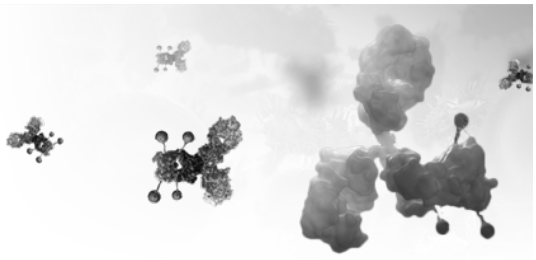

Anti-FEN1 (aa 1-110) polyclonal antibody (DPAB-DC977)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	FEN1 (NP_004102, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. The sequence is MGIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQGGDVLQNEEGET TSHLMGMFYRTIRMMENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQ
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	FEN1 flap structure-specific endonuclease 1 [Homo sapiens (human)]
Official Symbol	FEN1
Synonyms	FEN1; flap structure-specific endonuclease 1; MF1; RAD2; FEN-1; flap endonuclease 1; DNase IV; maturation factor 1; maturation factor-1;
Entrez Gene ID	2237
Protein Refseq	NP_004102
UniProt ID	P39748
Chromosome Location	11q12
Pathway	Base Excision Repair; Base excision repair; Cell Cycle, Mitotic; DNA Repair
Function	5-3 exonuclease activity; 5-flap endonuclease activity; DNA binding; RNA-DNA hybrid ribonuclease activity

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