

**FEN1 Antibody**  
Rabbit mAb  
Catalog # AP91386

## Specification

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### FEN1 Antibody - Product Information

Application	WB, IHC
Primary Accession	<a href="#">P39748</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
DNase IV; FEN1; Flap endonuclease 1; Flap structure specific endonuclease 1; hFEN-1; hFEN1; Maturation factor 1; MF1; Rad2;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	42593 Da

### FEN1 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human FEN1
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### FEN1 Antibody - Protein Information

**Name** FEN1 {ECO:0000255|HAMAP-Rule:MF\_03140}

**Synonyms** RAD2

#### 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.

#### Cellular Location

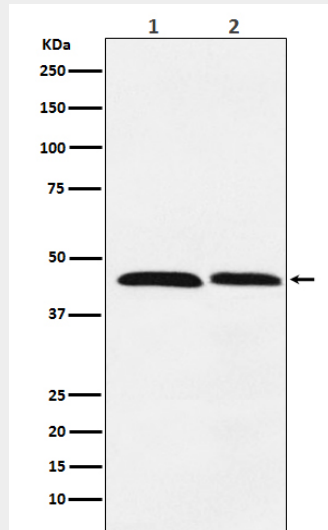
[Isoform 1]: Nucleus, nucleolus. Nucleus, nucleoplasm. Note=Resides mostly in the nucleoli and relocates to the nucleoplasm upon DNA damage

#### FEN1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### FEN1 Antibody - Images



Western blot analysis of FEN1 expression in (1) HeLa cell lysate; (2) Daudi cell lysate.