

FEN1 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP50042

Specification

FEN1 Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW
Antigen Region

WB, IF, IHC
P39748
Human, Mouse, Rat
Rabbit
Polyclonal
43,36 KDa
107-132

FEN1 Antibody - Additional Information

Gene ID 2237

Other Names

Flap endonuclease 1 {ECO:0000255|HAMAP-Rule:MF_03140}, FEN-1 {ECO:0000255|HAMAP-Rule:MF_03140}, 31-- {ECO:0000255|HAMAP-Rule:MF_03140}, DNase IV, Flap structure-specific endonuclease 1 {ECO:0000255|HAMAP-Rule:MF_03140}, Maturation factor 1, MF1, hFEN-1, FEN1 {ECO:0000255|HAMAP-Rule:MF_03140}, RAD2

Dilution

WB~~ 1:1000 IF~~1:100 IHC~~1:50-1:100

Format

Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions

-20°C

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/apyrimidinic (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 relocalizes to the nucleoplasm upon DNA damage

FEN1 Antibody - Protocols

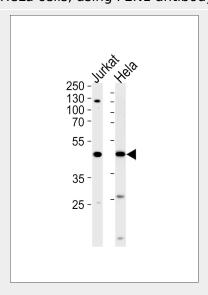
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FEN1 Antibody - Images



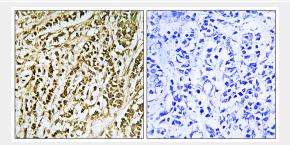
Immunofluorescence analysis of HeLa cells, using FEN1 antibody.



Western blot analysis of lysates from Jurkat, Hela cell line (from left to right), using FEN1



Antibody(C10585). C10585 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using FEN1 antibody.

FEN1 Antibody - Background

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FEN1 Antibody - References

Murray J.M., et al.Mol. Cell. Biol. 14:4878-4888(1994). Hiraoka L.R., et al.Genomics 25:220-225(1995). Taylor T.D., et al.Nature 440:497-500(2006). Robins P., et al.J. Biol. Chem. 269:28535-28538(1994). Shen B., et al.J. Biol. Chem. 271:9173-9176(1996).