

FEN-1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52835

Specification

FEN-1 Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Isotype
Calculated MW

WB, ICC
P39748
Human, Mouse
Mouse
Monoclonal
IgG1
45 KDa

FEN-1 Antibody - Additional Information

Gene ID 2237

Other Names

DNase IV;FEN-1;FEN1;FEN1_HUMAN;Flap endonuclease 1;Flap structure specific endonuclease 1;Flap structure-specific endonuclease 1;hFEN-1;hFEN1;Maturation factor 1;MF1;Rad2.

Dilution

WB~~1:1000 ICC~~1:400

Format

Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

FEN-1 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

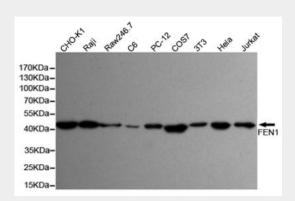
[Isoform 1]: Nucleus, nucleolus. Nucleus, nucleoplasm. Note=Resides mostly in the nucleoli and relocalizes to the nucleoplasm upon DNA damage

FEN-1 Antibody - Protocols

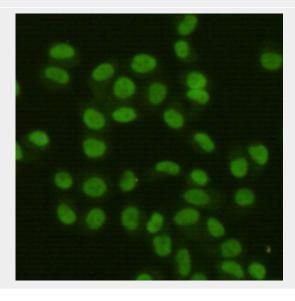
Provided below are standard protocols that you may find useful for product applications.

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

FEN-1 Antibody - Images



Western blot detection of FEN-1 in Hela, Jurkat, 3T3, COS7, PC-12, C6, Raw 264.7, Raji and CHO-K1 cell lysates using FEN-1 mouse mAb (1:1000 diluted). Predicted band size: 45 KDa. Observed band size: 45 KDa.







Immunocytochemistry staining of HeLa cells fixed with 4% Paraformaldehyde and using FEN-1 mouse mAb (dilution 1:400).

FEN-1 Antibody - Background

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FEN-1 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).