10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FEN1 Antibody (monoclonal) (M01A)

Mouse monoclonal antibody raised against a partial recombinant FEN1.
Catalog # AT2030a

Product Information

Application	WB
Primary Accession	P39748
Other Accession	NM_004111
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgM Kappa
Clone Names	1E3
Calculated MW	42593

Additional Information

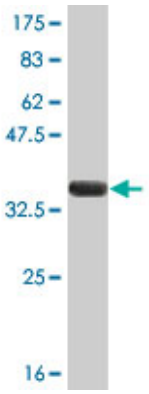
Gene ID	2237
Other Names	Flap endonuclease 1 {ECO:0000255|HAMAP-Rule:MF_03140}, FEN-1 {ECO:0000255|HAMAP-Rule:MF_03140}, 31--{ECO:0000255|HAMAP-Rule:MF_03140}, DNase IV, Flap structure-specific endonuclease 1 {ECO:0000255|HAMAP-Rule:MF_03140}, Maturation factor 1, MF1, hFEN-1, FEN1 {ECO:0000255|HAMAP-Rule:MF_03140}, RAD2
Target/Specificity	FEN1 (NP_004102, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FEN1 Antibody (monoclonal) (M01A) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

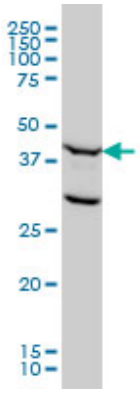
The protein encoded by this gene removes 5' overhanging flaps in DNA repair and processes the 5' ends of Okazaki fragments in lagging strand DNA synthesis. Direct physical interaction between this protein and AP endonuclease 1 during long-patch base excision repair provides coordinated loading of the 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]

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



FEN1 monoclonal antibody (M01A), clone 1E2 Western Blot analysis of FEN1 expression in Hela S3 NE ((Cat # AT2030a)