

Product datasheet for **TA346946**

FEN1 Mouse Monoclonal Antibody [Clone ID: 7H8-F4-C11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7H8-F4-C11
Applications:	IF, WB
Recommended Dilution:	WB: 1:1000
Reactivity:	Human, Mouse, Rat, Hamster, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for FEN1 antibody: purified recombinant human FEN-1 protein fragments expressed in E.coli.
Formulation:	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45 kDa
Gene Name:	flap structure-specific endonuclease 1
Database Link:	NP_004102 Entrez Gene 14156 Mouse Entrez Gene 84490 Rat Entrez Gene 2237 Human P39748



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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, Jul 2008]
Synonyms:	FEN-1; MF1; RAD2
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Base excision repair, DNA replication, Non-homologous end-joining