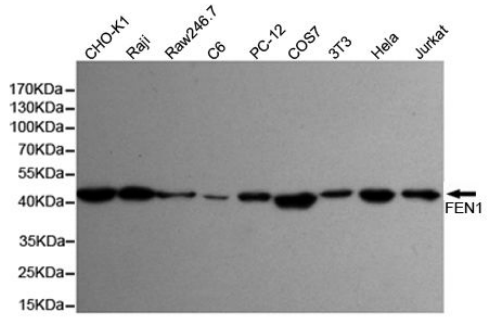
FEN-1

Mouse monoclonal Antibody

#53660

Catalog Number: 53660
Amount: 100μg/100μl
Swiss-Prot No. :P39748
Gene name:fen1
Gene id:2237
Clone Number： 7H8-F4-C11
Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Storage/Stability: Store at -20℃/1 year
Immunogen: Purified recombinant human FEN-1 protein fragments expressed in E.coli
Purification: affinity-chromatography
Specificity/Sensitivity: This antibody detects endogenous levels of FEN-1 and does not corss-react with related proteins
Reactivity: Human,Mouse,Rat,Monkey,Hamster
Applications: Predicted MW: 45kd WB: 1:1000 ICC/IF:1:400



Western blot detection of FEN-1 in Hela,Jurkat,3T3,COS7,PC-12,C6,Raw264.7,Raji and CHO-K1 cell lysates using FEN-1 mouse mAb (1:1000 diluted).Predicted band size:45KDa.Observed band size:45KDa.

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.