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Product datasheet for TA802762

FEN1 Mouse Monoclonal Antibody [Clone ID: OTI1F3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F3
Applications:	IHC, WB
Recommend Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 117-380 of human FEN1 (NP_004102) produced in E.coli.
Formulation:	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	42.4 kDa
Gene Name:	flap structure-specific endonuclease 1
Database Link:	NP_004102 Entrez Gene 2237 Human
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]

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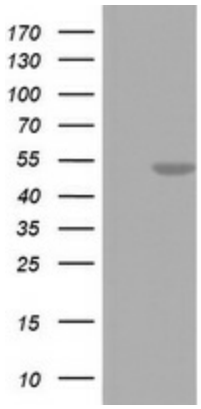
Synonyms: FEN-1; MF1; RAD2

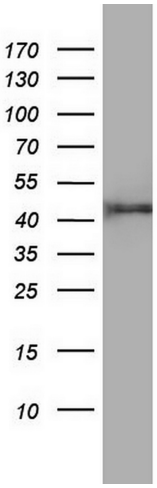
Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Base excision repair, DNA replication, Non-homologous end-joining

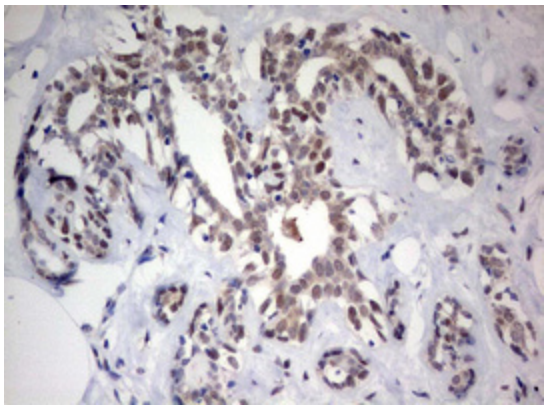
Product images:



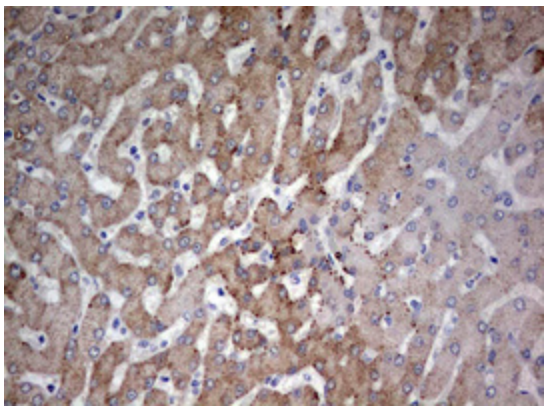
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY FEN1 ([RC201785], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FEN1. Positive lysates [LY401328] (100ug) and [LC401328] (20ug) can be purchased separately from OriGene.



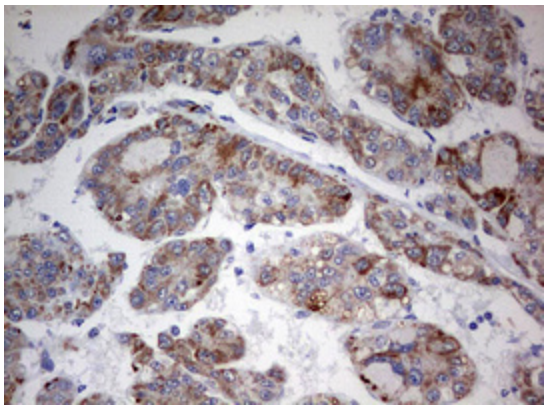
Western blot analysis of A549 cell lysate (35ug) by using anti-FEN1 monoclonal antibody. Dilution: 1:500



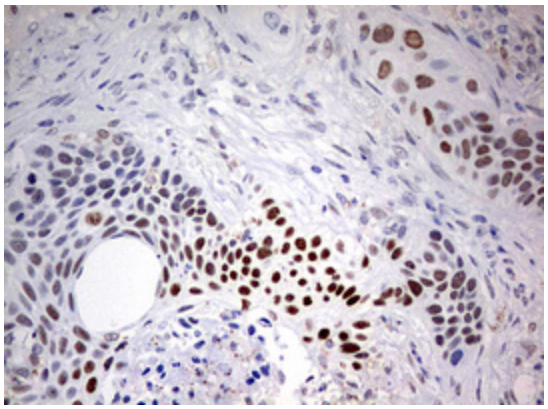
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-FEN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA802762)



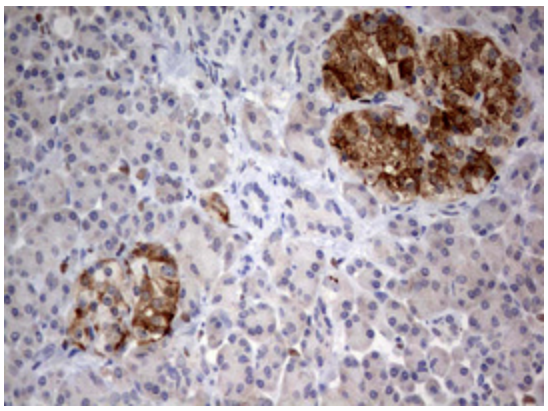
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-FEN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA802762)



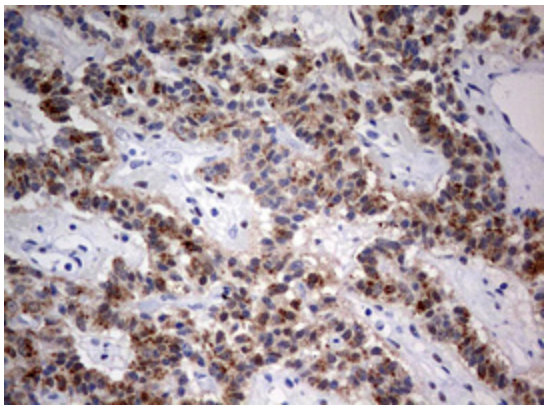
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-FEN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA802762)



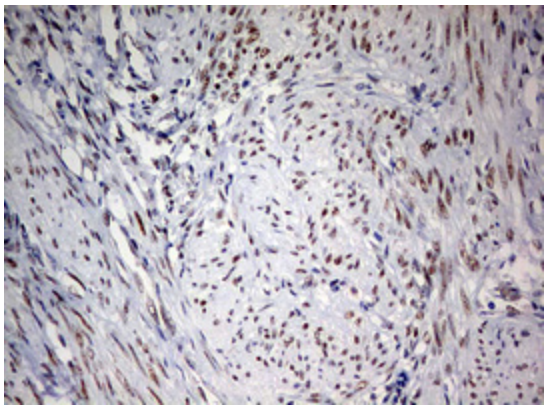
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-FEN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA802762)



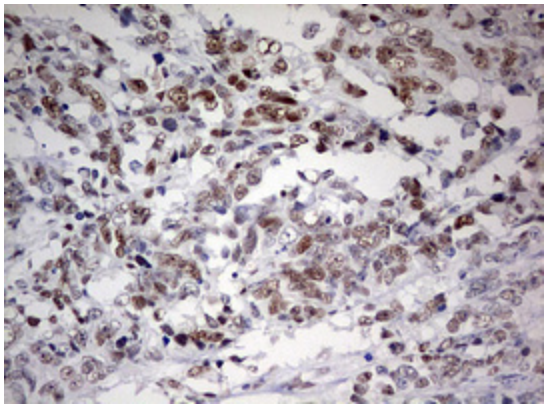
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-FEN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA802762)



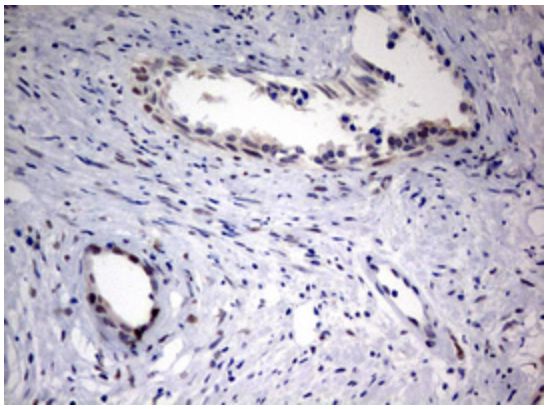
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-FEN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA802762)



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-FEN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA802762)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-FEN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA802762)



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-FEN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA802762)