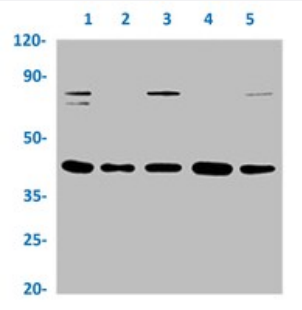
RecomAb™

FEN1 recombinant monoclonal antibody, clone 4D9

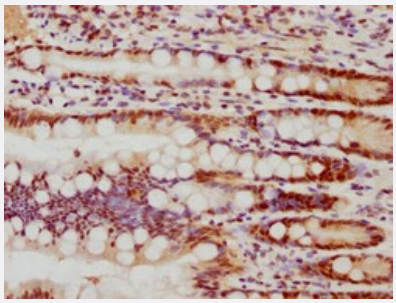
Catalog # RAB04338 Size 100 uL

Applications



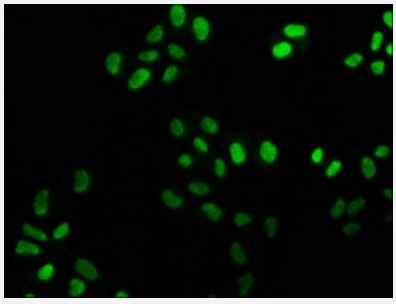
Western Blot

Western blot analysis of Lane 1: Hela whole cell lysate, Lane 2: Reji whole cell lysate, Lane 3: HepG2 whole cell lysate, Lane 4: Jurkat whole cell lysate and Lane 5: MCF-7 whole cell lysate with FEN1 recombinant monoclonal antibody, clone 4D9 (Cat # RAB04338).



Immunohistochemistry

Immunohistochemical staining of human small intestine tissue with FEN1 recombinant monoclonal antibody, clone 4D9 (Cat # RAB04338) (diluated at 1:77.5).



Immunofluorescence

Immunofluorescent staining of Hela cells with FEN1 recombinant monoclonal antibody, clone 4D9 (Cat # RAB04338) (diluated at 1:25). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human FEN1.

Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human FEN1.
Theoretical MW (kDa)	Calculated MW: 43, 3
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot

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- Immunohistochemistry

  Immunohistochemical staining of human small intestine tissue with FEN1 recombinant monoclonal antibody, clone 4D9 (Cat # RAB04338) (diluated at 1:77.5).

- Immunofluorescence

  Immunofluorescent staining of Hela cells with FEN1 recombinant monoclonal antibody, clone 4D9 (Cat # RAB04338) (diluated at 1:25). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — FEN1

Entrez GeneID	2237
Protein Accession#	P39748
Gene Name	FEN1
Gene Alias	FEN-1, MF1, RAD2
Gene Description	flap structure-specific endonuclease 1
Omim ID	600393
Gene Ontology	Hyperlink
Gene Summary	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 betwee n this protein and AP endonuclease 1 during long-patch base excision repair provides coordinate d loading of the proteins onto the substrate, thus passing the substrate from one enzyme to anoth er. The protein is a member of the XPG/RAD2 endonuclease family and is one of ten proteins ess ential 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 nec essary for both binding and cleavage by the protein encoded by this gene. Therefore, secondary s tructure can deter the protective function of this protein, leading to site-specific trinucleotide expan sions. [provided by RefSeq
Other Designations	DNase IV|maturation factor-1

Pathway

- Base excision repair
- DNA replication
- Non-homologous end-joining

Disease

- Breast cancer
- Breast Neoplasms
- Coronary Artery Disease
- DNA Damage

- Genetic Predisposition to Disease
- Graft vs Host Disease
- Head and Neck Neoplasms
- Huntington disease
- Lung Neoplasms
- Lupus Erythematosus
- Multiple Sclerosis
- Neoplasm Recurrence
- Neoplasms