

A1175

Leader in Biomolecular Solutions for Life Science



FEN-1 Rabbit pAb

Catalog No.: A1175

3 Publications

Basic Information

Observed MW

48kDa

Calculated MW

43kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,IF/ICC,IP,ELISA

Cross-Reactivity

Human,Mouse

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.

Recommended Dilutions

WB 1:500 - 1:2000

IHC-P 1:50 - 1:200

IF/ICC 1:10 - 1:100

IP 0.5µg-4µg antibody for
200µg-400µg extracts
of whole cells

ELISA Recommended starting
concentration is 1
µg/mL. Please optimize
the concentration
based on your specific
assay requirements.

Immunogen Information

Gene ID

2237

Swiss Prot

P39748

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 50-380 of human FEN-1 (NP_004102.1).

Synonyms

MF1; RAD2; FEN-1

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

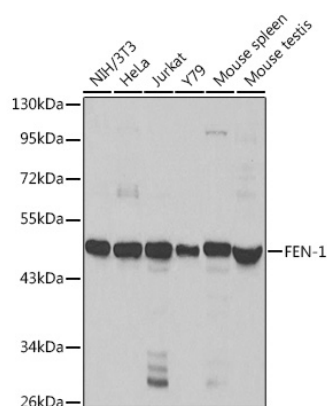
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Contact



www.abclonal.com

Validation Data

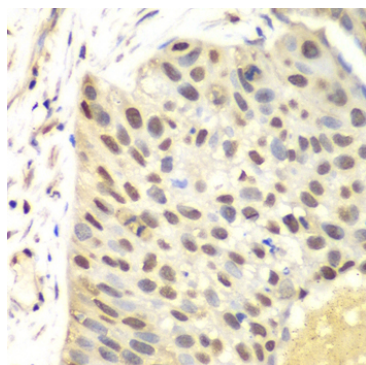


Western blot analysis of various lysates using FEN-1 Rabbit pAb (A1175) at 1:1000 dilution.

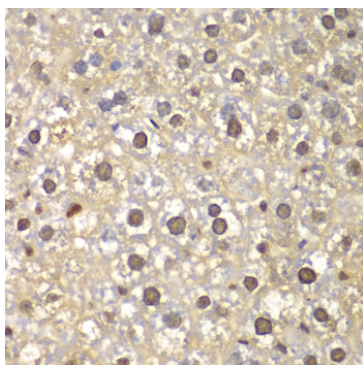
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

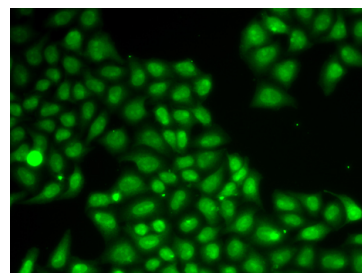
Blocking buffer: 3% nonfat dry milk in TBST.



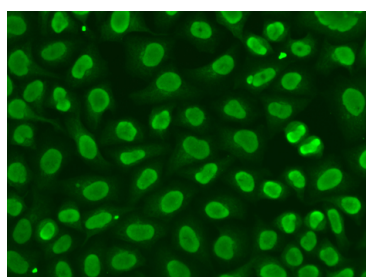
Immunohistochemistry analysis of paraffin-embedded Human lung cancer using FEN-1 Rabbit pAb (A1175) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver using FEN-1 Rabbit pAb (A1175) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

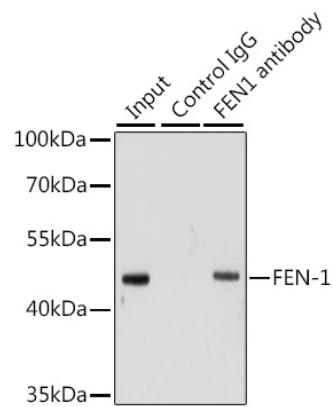


Immunofluorescence analysis of A549 cells using FEN-1 Rabbit pAb (A1175). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution.



Immunofluorescence analysis of HeLa cells using FEN-1 Rabbit pAb (A1175). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution.

Validation Data



Immunoprecipitation analysis of 200 µg extracts of HeLa cells using 1 µg FEN-1 antibody (A1175). Western blot was performed from the immunoprecipitate using FEN-1 antibody (A1175) at a dilution of 1:1000.