

For Research Use Only

FEN1 Polyclonal antibody

Catalog Number: 14768-1-AP

11 Publications



Basic Information

Catalog Number:

14768-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6552

GenBank Accession Number:

BC000323

GeneID (NCBI):

2237

UNIPROT ID:

P39748

Full Name:

flap structure-specific endonuclease 1

Calculated MW:

43 kDa

Observed MW:

48 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB : HeLa cells, NIH/3T3 cells

IP : NIH/3T3 cells,

IHC : human colon cancer tissue, human lung cancer tissue, mouse ovary tissue, mouse small intestine tissue

IF/ICC : NIH/3T3 cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

FEN1(Flap endonuclease-1) is the prototypical member of the 5'-nuclease superfamily, whose activities span a range of cellular pathways involved in DNA replication and genome maintenance (PMID: 22118811, 21496641, 20929870). FEN1 is a structure-selective metallo-nuclease essential for Okazaki fragment maturation through efficient removal of 5' flaps resulting from strand displacement during lagging-strand synthesis (PMID: 8144677, 9081985). FEN1 is overexpressed in multiple cancer types, and has been suggested both as a biomarker relating to prognosis and disease progression and as a potential therapeutic target (PMID: 19010819, 16879693, 19596913, 27526030).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoli Xu	30184152	J Mol Cell Biol	WB
Shaozu Fu	35613597	Cell Rep	WB
Megha Jhanji	35688816	Nat Commun	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

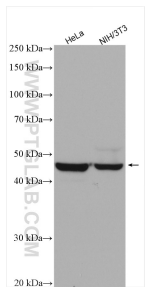
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

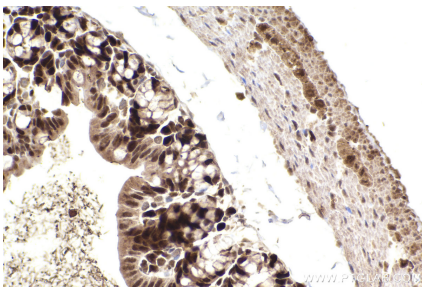
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

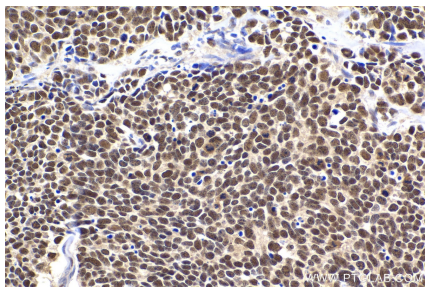
Selected Validation Data



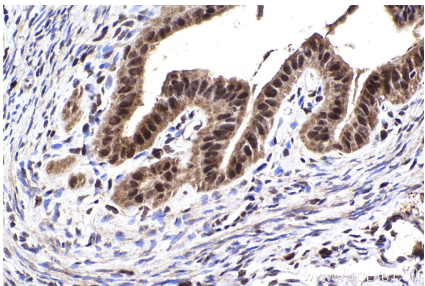
Various lysates were subjected to SDS PAGE followed by western blot with 14768-1-AP (FEN1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



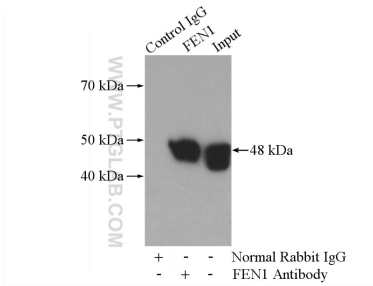
Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 14768-1-AP (FEN1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



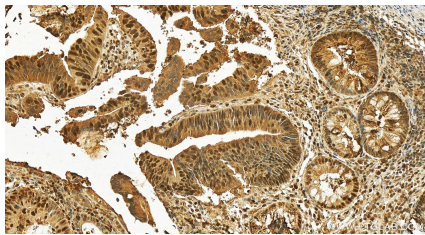
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14768-1-AP (FEN1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



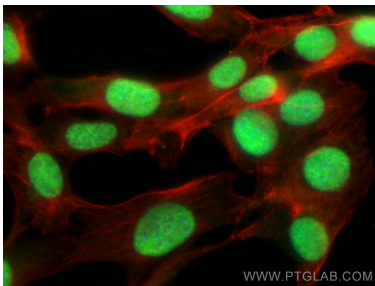
Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 14768-1-AP (FEN1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-FEN1 (IP:14768-1-AP, 4ug; Detection:14768-1-AP 1:500) with NIH/3T3 cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14768-1-AP (FEN1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using FEN1 antibody (14768-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).