

For Research Use Only

FEN1 Polyclonal antibody

Catalog Number: 14768-1-AP **7 Publications**



Basic Information

Catalog Number: 14768-1-AP	GenBank Accession Number: BC000323	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 220 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2237	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:500-1:1000
Source: Rabbit	Full Name: flap structure-specific endonuclease 1	for WB IHC 1:20-1:200 IF 1:50-1:500
Isotype: IgG	Calculated MW: 43 kDa	
Immunogen Catalog Number: AG6552	Observed MW: 48 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB : HeLa cells, NIH/3T3 cells
Cited Applications: IHC, WB	IP : NIH/3T3 cells,
Species Specificity: human, mouse, rat	IHC : human colon cancer tissue,
Cited Species: human, rat	IF : 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

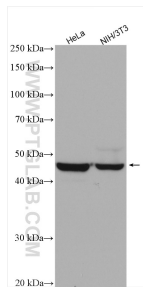
Storage

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

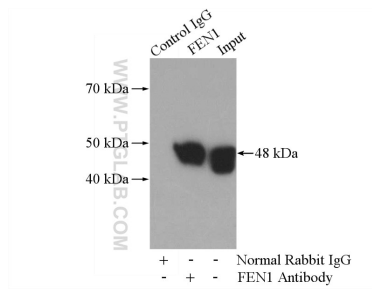
For technical support and original validation data for this product please contact:
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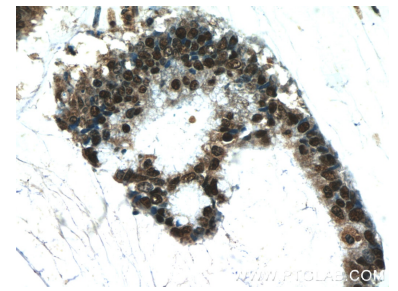
Selected Validation Data



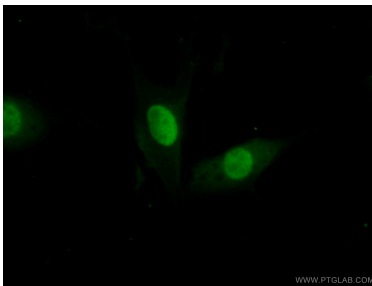
Various lysates were subjected to SDS PAGE followed by western blot with 14768-1-AP (FEN1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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 1:50 (under 40x lens).



Immunofluorescent analysis of (10% Formaldehyde) fixed NIH/3T3 cells using 14768-1-AP (FEN1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).