

Product Datasheet

FEN-1 Antibody - BSA Free

NB100-320

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-320

FEN-1 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	43 kDa

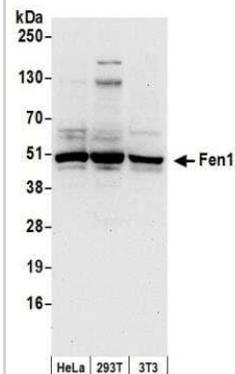
Product Description	
Host	Rabbit
Gene ID	2237
Gene Symbol	FEN1
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residues 75 and 125 of human Flap Structure Endonuclease 1 using the numbering given in entry NP_004102.1 (GeneID 2237).

Product Application Details	
Applications	Western Blot, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000 - 1:10000, Immunoprecipitation 2 - 10 ug/mg lysate

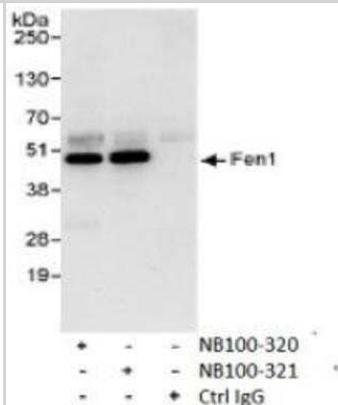


Images

Western Blot: FEN-1 Antibody [NB100-320] - Detection of Human and Mouse Fen1 by Western Blot. Samples: Whole cell lysate (50 ug) from HeLa, 293T, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-Fen1 antibody NB100-320 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Immunoprecipitation: FEN-1 Antibody [NB100-320] - Whole cell lysate from HeLa cells (1 mg loaded), affinity purified rabbit antiFen1 antibody used for IP at 3 ug/mg lysate. Fen1 was also immunoprecipitated by rabbit anti-Fen1 antibody NB100-321, which recognizes a downstream epitope.



Publications

Caston RA, Fortini P, Chen K et al. Maintenance of Flap Endonucleases for Long-Patch Base Excision DNA Repair in Mouse Muscle and Neuronal Cells Differentiated In Vitro International Journal of Molecular Sciences 2023-08-12 [PMID: 37628896] (Western Blot)

YY1 suppresses FEN1 over-expression and drug resistance in breast cancer Wang J, Zhou L, Li Z et al. Cancer 2005 -07-07 [PMID: 25885449] (WB, Human)

Duxin JP, Moore HR, Sidorova J et al. Okazaki fragment processing-independent role for human Dna2 enzyme during DNA replication. J Biol Chem 2012-06-01 [PMID: 22570476]

Saharia A, Teasley DC, Duxin JP et al. FEN1 ensures telomere stability by facilitating replication fork re-initiation. J Biol Chem 2010-08-01 [PMID: 20551483]

Sampathi S, Bhusari A, Shen B et al. Human flap endonuclease I is in complex with telomerase and is required for telomerase-mediated telomere maintenance. J Biol Chem 2009-02-01 [PMID: 19068479]

Hegde ML, Theriot CA, Das A et al. Physical and functional interaction between human oxidized base-specific DNA glycosylase NEIL1 and flap endonuclease 1. J Biol Chem 2008-10-01 [PMID: 18662981]

Szczesny B, Tann AW, Longley MJ et al. Long patch base excision repair in mammalian mitochondrial genomes. J Biol Chem 2008-09-01 [PMID: 18635552]

Wang SC, Nakajima Y, Yu YL et al. Tyrosine phosphorylation controls PCNA function through protein stability. Nat Cell Biol 2006-12-01 [PMID: 17115032]

Muftuoglu M, Wong HK, Imam SZ et al. Telomere repeat binding factor 2 interacts with base excision repair proteins and stimulates DNA synthesis by DNA polymerase beta. Cancer Res 2006-01-01 [PMID: 16397223]



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Products Related to NB100-320

NB800-PC1	HeLa Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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