

# Product Datasheet

## FEN-1 Antibody (4E7) - Azide and BSA Free NB100-150

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-150**

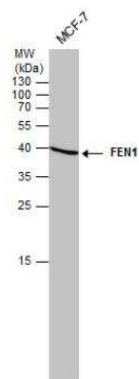
FEN-1 Antibody (4E7) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4E7
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	42 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	2237
<b>Gene Symbol</b>	FEN1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
<b>Specificity/Sensitivity</b>	This is specific for FEN-1.
<b>Immunogen</b>	Recombinant human FEN-1 protein encoding amino acids 1-380 purified E. coli.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Application Notes</b>	Chip, ICC/IF, IP- Assay dependent

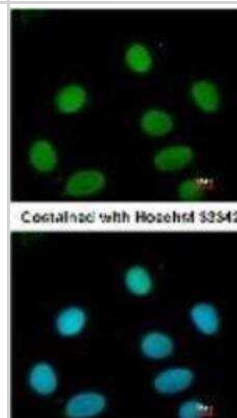


## Images

Western Blot: FEN-1 Antibody (4E7) [NB100-150] - Whole cell extract (30 ug) was separated by 12% SDS-PAGE, and the membrane was blotted with FEN1 antibody diluted at 1:500.



Immunocytochemistry/Immunofluorescence: FEN-1 Antibody (4E7) [NB100-150] - Analysis of paraformaldehyde-fixed MCF7, using antibody at 1:200 dilution.



## Publications

Uttkarsh Ayyangar, Aneesh Karkhanis, Heather Tay, Aliya Farissa Binte Afandi, Oindrila Bhattacharjee, Lalitha KS, Sze Han Lee, James Chan, Srikala Raghavan Metabolic rewiring of macrophages by epidermal-derived lactate promotes sterile inflammation in the murine skin *The EMBO Journal* 2024-02-28 [PMID: 38418556]

Yuan B, Kikuchi H, Li J et al. Cytotoxic Effects of Darinaparsin, a Novel Organic Arsenical, against Human Leukemia Cells *International Journal of Molecular Sciences* 2023-01-23 [PMID: 36768603] (Western Blot)

Zhang J, Jing L, Tan S et al. Inhibition of miR-1193 leads to synthetic lethality in glioblastoma multiforme cells deficient of DNA-PKcs *Cell Death Dis* 2020-07-30 [PMID: 32732911] (B/N)

Zhang J, Chen M, Pang Y et al. Flap endonuclease 1 and DNA-PKcs synergistically participate in stabilizing replication fork to encounter replication stress in glioma cells *Journal of experimental & clinical cancer research : CR* 2022-04-12 [PMID: 35414100] (WB, Human)

Tann AW, Boldogh I, Meiss G et al. Apoptosis induced by persistent single-strand breaks in mitochondrial genome: critical role of EXOG (5'-EXO/endonuclease) in their repair. *J Biol Chem* 2011-09-01 [PMID: 21768646] (Human)

Guo Zhigang, Zheng Li, Xu Hong et al. Methylation of FEN1 suppresses nearby phosphorylation and facilitates PCNA binding. *Nat Chem Biol.* 2010-10-01 [PMID: 20729856] (Human)

Asagoshi K, Liu Y, Masaoka A et al. DNA polymerase beta-dependent long patch base excision repair in living cells. *DNA Repair (Amst)* 2010-02-01 [PMID: 20006562] (Human)

Kong X, Mohanty SK, Stephens J et al. Comparative analysis of different laser systems to study cellular responses to DNA damage in mammalian cells. *Nucleic Acids Res* 2009-05-01 [PMID: 19357094] (Human)

Guo Z, Zheng L, Dai H et al. Human DNA polymerase beta polymorphism, Arg137Gln, impairs its polymerase activity and interaction with PCNA and the cellular base excision repair capacity. *Nucleic Acids Res* 2009-06-01 [PMID: 19336415] (Human)

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] (Human)

Guo Z, Chavez V, Singh P et al. Comprehensive mapping of the C-terminus of flap endonuclease-1 reveals distinct interaction sites for five proteins that represent different DNA replication and repair pathways. *J Mol Biol* 2008-03-01 [PMID: 18291413] (Human)

Guo Z, Qian L, Liu R et al. Nucleolar localization and dynamic roles of flap endonuclease 1 in ribosomal DNA replication and damage repair. *Mol Cell Biol* 2008-07-01 [PMID: 18443037] (Human)

More publications at <http://www.novusbio.com/NB100-150>





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### **Products Related to NB100-150**

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NBL1-10676	FEN-1 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **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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