

Product Datasheet

DNA Ligase III Antibody (1F3) - Azide and BSA Free NBP1-41190

Unit Size: 100 ul

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

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Publications: 10

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NBP1-41190

DNA Ligase III Antibody (1F3) - Azide and BSA Free

Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1F3
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	113 kDa

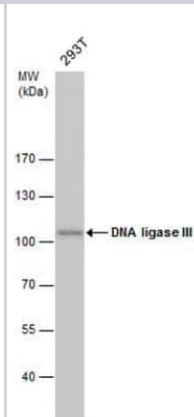
Product Description	
Description	Novus Biologicals Mouse DNA Ligase III Antibody (1F3) - Azide and BSA Free (NBP1-41190) is a monoclonal antibody validated for use in WB, ICC/IF and IP. Anti-DNA Ligase III Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3980
Gene Symbol	LIG3
Species	Human, Mouse, Chicken
Reactivity Notes	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.
Specificity/Sensitivity	This antibody will recognize human DNA ligase III.
Immunogen	Recombinant full-length human DNA Ligase III-b.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Proximity Ligation Assay, Block/Neutralize
Recommended Dilutions	Western Blot 1:500-1:3000, Immunocytochemistry/ Immunofluorescence Assay dependent, Immunoprecipitation Assay dependent, Proximity Ligation Assay Assay dependent, Block/Neutralize Assay dependent

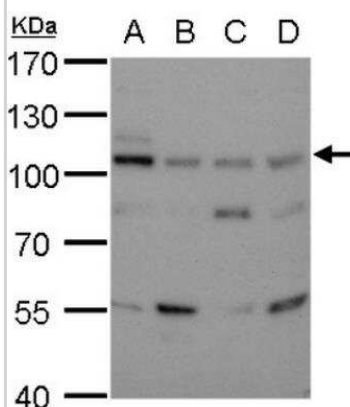


Images

Western Blot: DNA Ligase III Antibody (1F3) [NBP1-41190] - Whole cell extracts (30 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with DNA ligase III antibody diluted by 1:500. The HRP-conjugated anti-mouse IgG antibody (NBP2-19382) was used to detect the primary antibody.



Western Blot: DNA Ligase III Antibody (1F3) [NBP1-41190] - A. 293T whole cell lysate/extract. B. A431 whole cell lysate/extract. C. HeLa whole cell lysate/extract. D. HepG2 whole cell lysate/extract. DNA ligase III dilution: 1:500 The HRP-conjugated anti-mouse IgG antibody (NBP2-19382) was used to detect the primary antibody.



Publications

Ebert F, Weiss A, Bultemeyer M et al. Arsenicals affect base excision repair by several mechanisms. *Mutat Res* 2011 Oct [PMID: 21782832] (B/N, WB, Human)

Singh SK, Wu W, Zhang L et al. Widespread dependence of backup NHEJ on growth state: ramifications for the use of DNA-Pk inhibitors. *Int J Radiat Oncol Biol Phys* 2011 Feb [PMID: 20950945] (B/N, WB, 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 Feb [PMID: 20006562] (B/N, WB, 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 Jun [PMID: 19336415] (B/N, WB, Human)

Chen X, Zhong S, Zhu X et al. Rational design of human DNA ligase inhibitors that target cellular DNA replication and repair. *Cancer Res* 2008 May [PMID: 18451142] (B/N, WB, Human)

Windhofer F, Wu W, Iliakis G. Low levels of DNA ligases III and IV sufficient for effective NHEJ. *J Cell Physiol* 2007 Nov [PMID: 17492771] (B/N, WB, Human)

Wang H, Rosidi B, Perrault R et al. DNA ligase III as a candidate component of backup pathways of nonhomologous end joining. *Cancer Res* 2005 May [PMID: 15899791] (B/N, WB, Human)

Okano S, Lan L, ToPrimeinson AE et al. Translocation of XRCC1 and DNA ligase IIIalpha from centrosomes to chromosomes in response to DNA damage in mitotic human cells. *Nucleic Acids Res* 2005 Jan [PMID: 15653642] (B/N, WB, Human)

Leppard JB, Dong Z, Mackey ZB et al. Physical and functional interaction between DNA ligase IIIalpha and poly(ADP-Ribose) polymerase 1 in DNA single-strand break repair. *Mol Cell Biol* 2003 Aug [PMID: 12897160] (B/N, WB, Human)

Dong Z, ToPrimeinson AE. ATM mediates oxidative stress-induced dephosphorylation of DNA ligase IIIalpha. *Nucleic Acids Res* 2006 [PMID: 17040896] (B/N, WB, Human)



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Products Related to NBP1-41190

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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