

Product Datasheet

DNA Ligase I Antibody (10H5) - Azide and BSA Free NB100-119

Unit Size: 100 ul

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

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NB100-119

DNA Ligase I Antibody (10H5) - 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	10H5
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	125 kDa

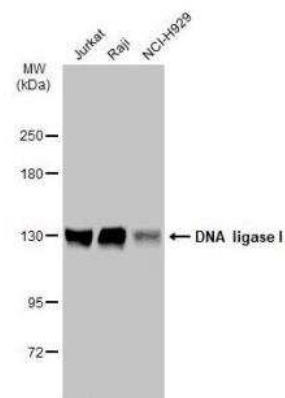
Product Description	
Description	Novus Biologicals Mouse DNA Ligase I Antibody (10H5) - Azide and BSA Free (NB100-119) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-DNA Ligase I Antibody: Cited in 27 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3978
Gene Symbol	LIG1
Species	Human, Mouse
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.. Rabbit reactivity reported in scientific literature (PMID: 12668657). Hamster reactivity reported in scientific literature (PMID: 11912211). Fish, and chicken reactivity reported in scientific literature (PMID: 12928478). Bacteria reactivity reported in scientific literature (PMID: 9603940).
Specificity/Sensitivity	This is specific for DNA ligase 1.
Immunogen	Full-length recombinant human DNA Ligase I protein

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, In vitro assay, Immunoprecipitation, Radioimmunoassay
Recommended Dilutions	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, In vitro assay, Radioimmunoassay
Application Notes	ICC/IF, IP usage reported in (PMID: 11912211). Use in Radioimmunoassay reported in (PMID: 9603940). Use In vitro assay reported in scientific literature (PMID: 11912211). WB, ICC/IF, IHC-P, IP-Assay dependent.

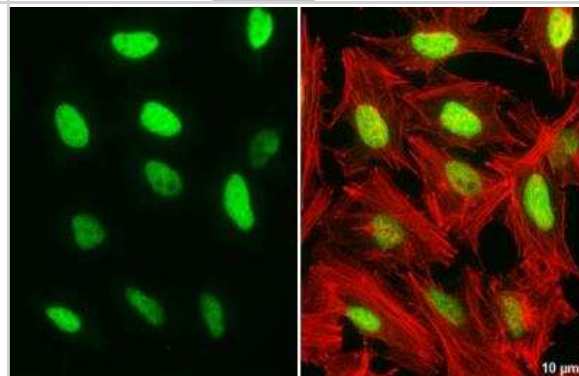


Images

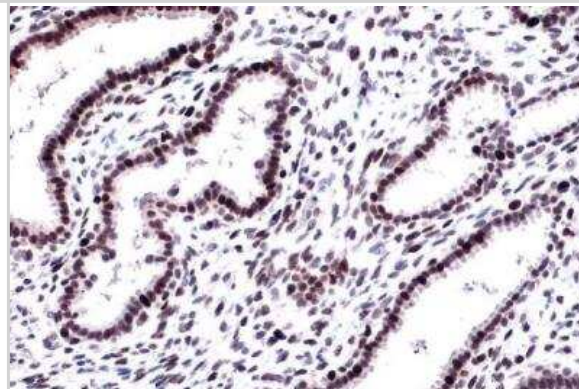
Western Blot: DNA Ligase I Antibody (10H5) [NB100-119] - Various whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with DNA ligase I antibody [10H5] diluted at 1:2000. The HRP-conjugated anti-mouse IgG antibody (NBP2-19382) was used to detect the primary antibody.



Immunocytochemistry/Immunofluorescence: DNA Ligase I Antibody (10H5) [NB100-119] - HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: DNA ligase I stained by DNA ligase I antibody [10H5] diluted at 1:500. Red: phalloidin, a cytoskeleton marker, diluted at 1:200. Scale bar= 10 um.



Immunohistochemistry-Paraffin: DNA Ligase I Antibody (10H5) [NB100-119] - Human breast carcinoma. DNA ligase I stained by DNA ligase I antibody [10H5] diluted at 1:100. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



Publications

Miles SJ, Matsuki K, Minda JP. Continuous executive function disruption interferes with application of an information integration categorization strategy. *Attention, perception & psychophysics* 2014-12-11 [PMID: 24719236]

Velez C, Williamson D, Cónovas ML et al. Changes in Immune Response during Pig Gestation with a Focus on Cytokines *Veterinary Sciences* 2024-01-22 [PMID: 38275932]

Eckert EM, Fontaneto D, Coci M, Callieri C. Does a Barcoding Gap Exist in Prokaryotes? Evidences from Species Delimitation in Cyanobacteria *Life* 2014-12-31 [PMID: 25561355]

Konopko A, Kusio J, Litwinienko G. Antioxidant Activity of Metal Nanoparticles Coated with Tocopherol-Like Residues—The Importance of Studies in Homo- and Heterogeneous Systems *Antioxidants* 2019-12-19 [PMID: 31861581]

Karolina Kuodytė. The Golgi complex as a regulatory platform for DNA Damage Response pathways Thesis 2023-01-01 (MS, IP, WB, Human)

Details:

WB 1:1000

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)

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)

Windhofer F, Wu W, Iliakis G. Low levels of DNA ligases III and IV sufficient for effective NHEJ. *J Cell Physiol* 2007-11-01 [PMID: 17492771] (Human)

Song W, Levin DS, Varkey J et al. A conserved physical and functional interaction between the cell cycle checkpoint clamp loader and DNA ligase I of eukaryotes. *J Biol Chem* 2007-08-01 [PMID: 17561505] (Human)

Wang W, Lindsey-Boltz LA, Sancar A et al. Mechanism of stimulation of human DNA ligase I by the Rad9-rad1-Hus1 checkpoint complex. *J Biol Chem* 2006-07-01 [PMID: 16731526] (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* 2005-05-01 [PMID: 15899791] (Human)

Rose, J L et al. Base Excision Repair Proteins Are Required for Integrin-Mediated Suppression of Bleomycin-Induced DNA Breakage in Murine Lung Endothelial Cells. *J. Pharmacol. Exp. Ther.* 321: 318-326. 2007-01-01 [PMID: 17202402]

More publications at <http://www.novusbio.com/NB100-119>





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Products Related to NB100-119

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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