# 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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**Publications: 28**

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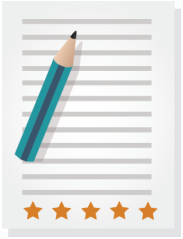
Updated 9/9/2025 v.20.1





# NB100-119

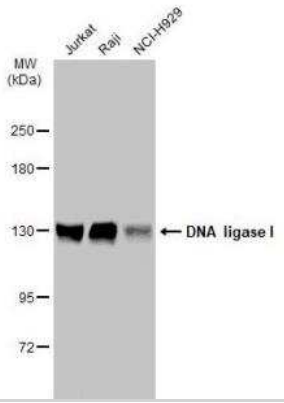
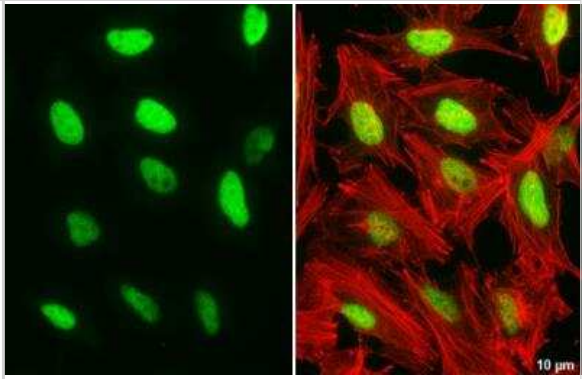
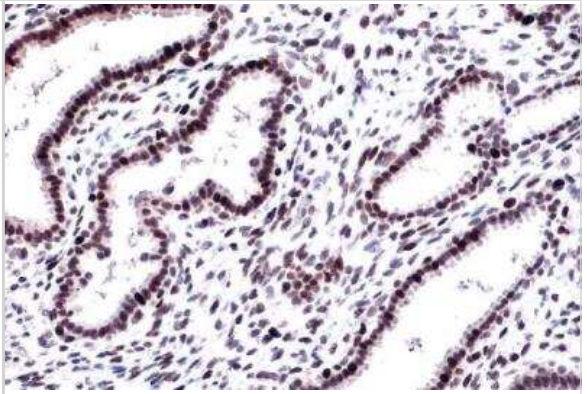
DNA Ligase I Antibody (10H5) - Azide and BSA Free

| 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, C□novas 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 Kuodyt? 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

| | |
|---|---|
| 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) |
| NB100-56635PEP | DNA Ligase I Antibody Blocking Peptide |

### 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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