

Product Datasheet

DNA Ligase IV Antibody - BSA Free NBP2-16182

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 12/16/2025 v.20.1

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NBP2-16182**DNA Ligase IV Antibody - BSA Free**

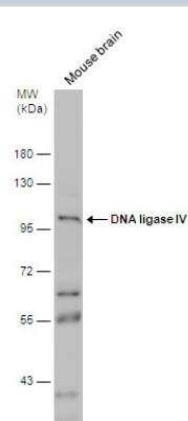
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	0.1M Tris, 0.1M Glycine, 20% Glycerol
Target Molecular Weight	104 kDa

Product Description	
Description	Novus Biologicals Rabbit DNA Ligase IV Antibody - BSA Free (NBP2-16182) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-DNA Ligase IV Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3981
Gene Symbol	LIG4
Species	Human, Mouse, Rat
Reactivity Notes	Sheep (83%), Bovine (86%).
Immunogen	Recombinant protein encompassing a sequence within the C-terminus region of human DNA Ligase IV. The exact sequence is proprietary.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

Images

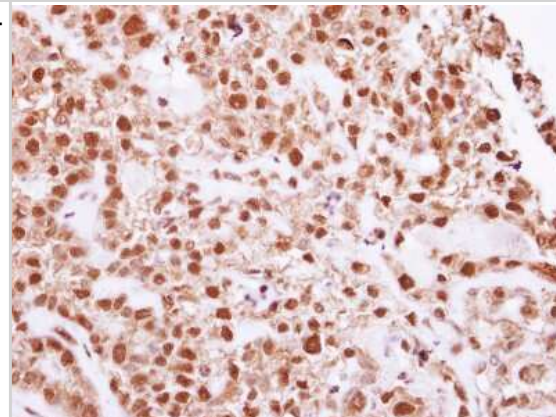
Western Blot: DNA Ligase IV Antibody [NBP2-16182] - Mouse tissue extract (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with DNA ligase IV antibody diluted at 1:500.



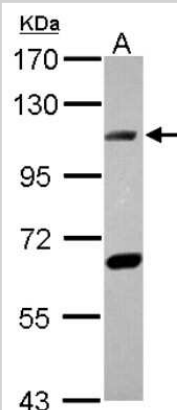
Immunocytochemistry/Immunofluorescence: DNA Ligase IV Antibody [NBP2-16182] - Analysis of paraformaldehyde-fixed HeLa, using antibody at 1:500 dilution.



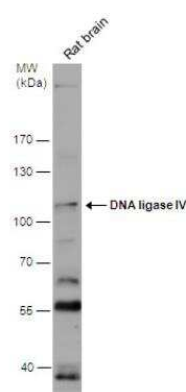
Immunohistochemistry-Paraffin: DNA Ligase IV Antibody [NBP2-16182] - Human ovarian cancer, using DNA ligase IV antibody at 1:250 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



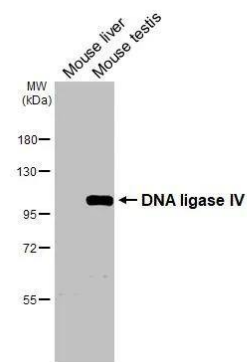
Western Blot: DNA Ligase IV Antibody [NBP2-16182] - Sample (30 ug of whole cell lysate) A: U87-MG 7. 5% SDS PAGE gel, diluted at 1:1000.



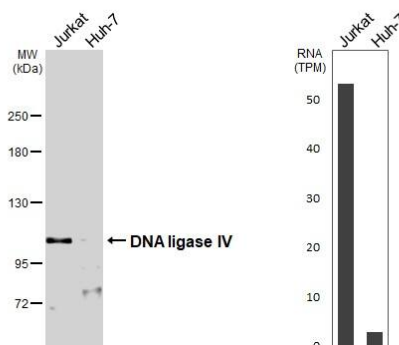
Western Blot: DNA Ligase IV Antibody [NBP2-16182] - Rat tissue extract (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with DNA ligase IV antibody diluted at 1:500.



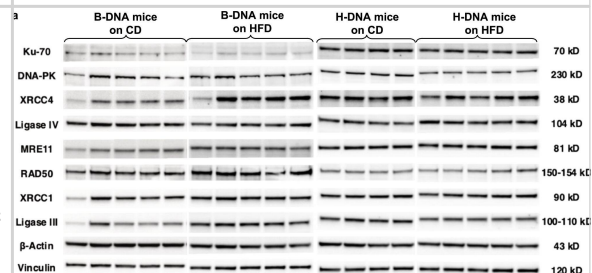
Various tissue extracts (50 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with DNA ligase IV antibody (NBP2-16182) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



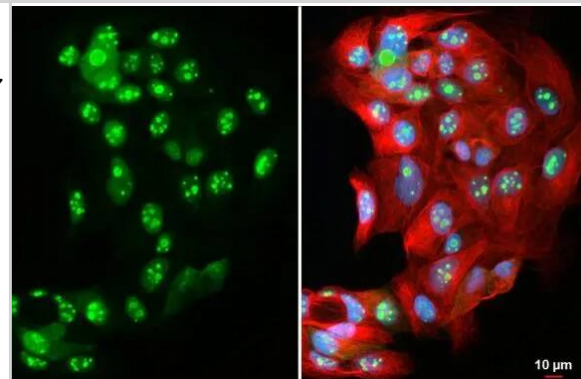
Various whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with DNA ligase IV antibody (NBP2-16182) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



Obesity alters the levels of DSB end-joining repair proteins. a Western blot analysis of NHEJ pathway proteins: Ku70, DNA-PK, XRCC4, Ligase IV, and alternative-NHEJ pathway proteins: MRE11, Rad50, XRCC1, Ligase III (normalized to loading controls β -actin or Vinculin) from testicular tissue extracts. For comparison, protein lysates from B-DNA mice (CD, N = 5; HFD, N = 5) were run on one blot and H-DNA mice (CD, N = 4; HFD, N = 5) were run on a separate blot. b, c Quantitation of blots represented as violin plots with all data points and dotted lines indicating median and quartile. Statistical analysis was performed using unpaired, two-tailed Mann-Whitney U test with 95% confidence interval. $p > 0.05$ (not significant), * $p > 0.05$, ** $p > 0.01$. Source data are provided as a Source Data file. Statistical analysis is provided as Supplementary Note 2. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41467-024-50006-8>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: DNA Ligase IV Antibody [NBP2-16182] - DNA Ligase IV antibody detects DNA Ligase IV protein at nucleus and nucleolus by immunofluorescent analysis. Sample: MCF-7 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: DNA Ligase IV stained by DNA Ligase IV antibody (NBP2-16182) diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] diluted at 1:1000. Blue: Fluoroshield with DAPI



Publications

Hu HL, Shiflett LA, Kobayashi M et al. TOP2b-Dependent Nuclear DNA Damage Shapes Extracellular Growth Factor Responses via Dynamic AKT Phosphorylation to Control Virus Latency Mol. Cell 2019-03-26 [PMID: 30930055] (WB, Rat)





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Products Related to NBP2-16182

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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